LC-20A2ECover 00.11.17

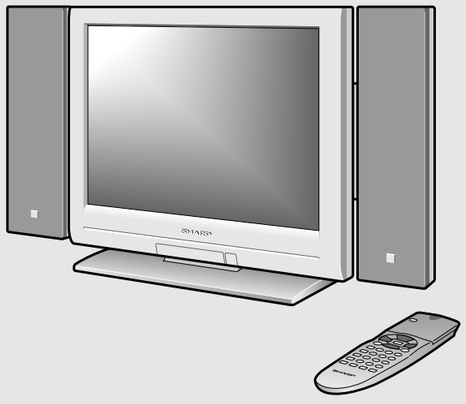
LC-20A2E

SHARP

LC-20A2E

LCD COLOUR TELEVISION
LCD-FARBFERNSEHGERÄT
TÉLÉVISION COULEUR À ÉCRAN À CRISTAUX LIQUIDES (LCD)
TELEVISORE A COLORI LCD
TELEVISIÓN EN COLOR LCD
LCD-FÄRG-TV
LCD-KLEURENTELEVISIE

ENGLISH
DEUTSCH
FRANÇAIS
ITALIANO
ESPAÑOL
SVENSKA
NEDERLANDS



OPERATION MANUAL
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUALE DI ISTRUZIONI
MANUAL DE MANEJO
BRUKSANVISNING
GEBRUIKSAANWIJZING

SHARP

SHARP

SHARP CORPORATION
OSAKA, JAPAN

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This equipment complies with the requirements of Directive 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.

Quest'apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC come emendata dalla direttiva 93/68/EEC.

Η εγκατάσταση αυτή ανταποκρίνεται στις απαιτήσεις των οδηγιών της Ευρωπαϊκής Ενωσης 89/336/ΕΟΚ και 73/23/ΕΟΚ, όπως οι κανονισμοί αυτοί συμπληρώθηκαν από την οδηγία 93/68/ΕΟΚ.

Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.

Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

SPECIAL NOTE FOR USERS IN THE U.K.

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 3A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ♡ or ASTA and of the same rating as above, which is also indicated on the pin face of the plug, must be used.
Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.
In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut off the mains plug and fit an appropriate type.

DANGER: The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.
Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socked outlet, as a serious electric shock may occur.

To fit an appropriate plug to the mains lead, follow the instructions below:

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:
Blue: Neutral Brown: Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows;

- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three-pin plug. Before replacing the plug cover make sure that:

- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The cord grip is clamped over the sheath of the mains lead, and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

ENGLISH

LC-20A2E

LCD COLOUR TELEVISION

ENGLISH

OPERATION MANUAL

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Dear SHARP Customer

Thank you for your purchase of the SHARP LCD Colour TV product. To ensure safety and many years of trouble-free operation of your product, please read the Important Safety Precautions carefully before using this product.

Important Safety Precautions

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your LCD colour TV product, please read the following precautions carefully before using the product.

- Read instructions—All operating instructions must be read and understood before the product is operated.
- Keep this manual in a safe place—These safety and operating instructions must be kept in a safe place for future reference.
- Observe warnings—All warnings on the product and in the instructions must be observed closely.
- Follow instructions—All operating instructions must be followed.
- Attachments—Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
- Power source—This product must operate on a power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company. For units designed to operate on batteries or another power source, refer to the operating instructions.
- Power cord protection—The power cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product.
- If you plan to use a 13-VDC power supply unit other than the AC adapter supplied with the product, make sure the power supply unit provides stable voltage with minimum fluctuations. Unstable power supply can cause problems in the product.
- Overloading—Do not overload AC outlets or extension cords.
  Overloading can cause fire or electric shock.
- Entering of objects and liquids—Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.
- Servicing—Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.
- Repair—If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs:
  a. When the power cord or plug is damaged.
  b. When a liquid was spilled on the product or when objects have fallen into the product.
  c. When the product has been exposed to rain or water.
  d. When the product does not operate properly as described in the operating instructions.
     Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.
  e. When the product has been dropped or damaged.
  f. When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.
- Replacement parts—In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.
- Safety checks—Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.
- Wall or ceiling mounting—When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.

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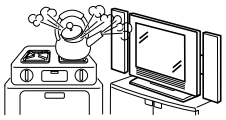
■ Cleaning—Unplug the power cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.

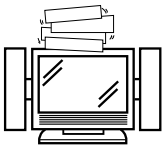
■ Water and moisture—Do not use the product near water, such as bathtub, washbasin, kitchen sink and laundry tub, swimming pool and in a wet basement.



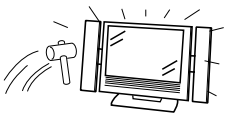
■ Stand—Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.

■ When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.

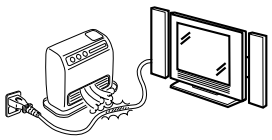
■ Ventilation—The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.



■ The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.



■ Heat sources—Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).



The LCD panel is a very high technology product with 921,600 thin film transistors, giving you fine picture details.
Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

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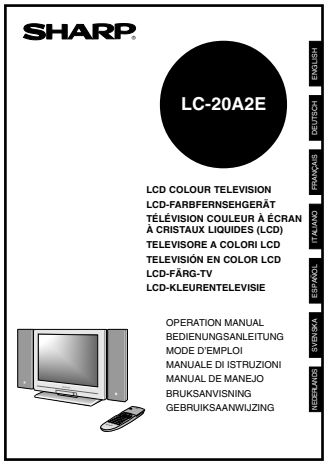
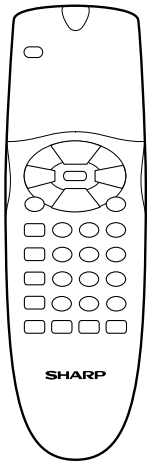
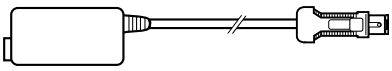
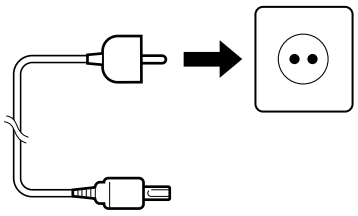
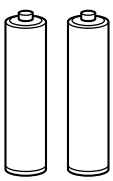
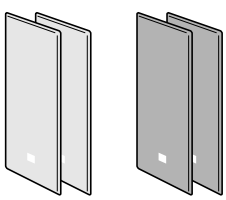
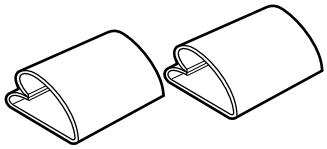
Supplied Accessories

Make sure the following accessories are provided with the product.

Operation manual (×1)	Wireless remote control (×1)
	
AC adapter (×1)	**AC cord (×1)**
	
	* Product shape varies in some countries.
Size AA dry battery (×2)	**Speaker net (×2, Red/Blue)**
	
Cable clamp (×2)	
	

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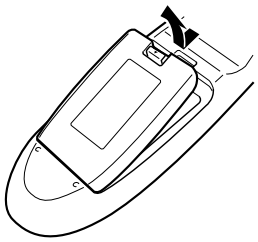
Preparation

Installing Batteries in the Remote Control

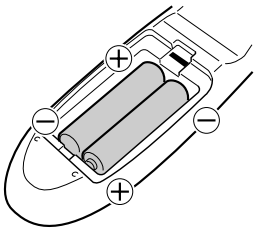
Before using the LCD TV set for the first time, install the two AA batteries supplied in the remote control. When the batteries become depleted and the remote control fails to operate, replace the batteries with new AA batteries.

1 Open the battery cover.



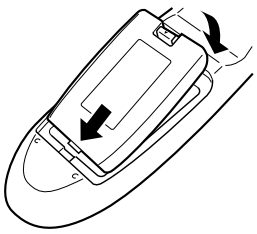
■ Raise the cover while pressing the (▼) part.

2 Insert two AA batteries.



■ Position the positive and negative ends of the batteries as indicated in the compartment.

3 Replace the battery cover.



■ Engaging the lower claw with the remote control, close the cover.

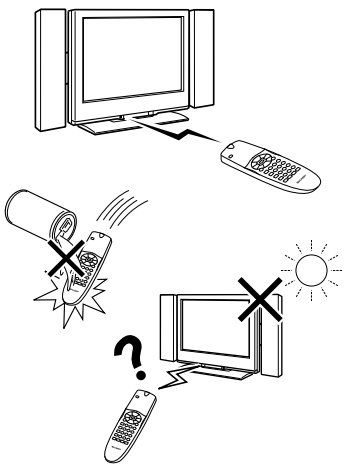
⚠ Caution!

Precautions regarding batteries

■ Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions below.
- Place batteries with their terminals corresponding to the (+) and (–) indications.
- Different types of batteries have different characteristics. Do not mix batteries of different types.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries and/or cause old batteries to leak chemicals.
- Remove batteries as soon as they are depleted. Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe it off with a cloth.
- The batteries supplied with the product may have a shorter life expectancy due to storage conditions.
- If the remote control is not to be used for an extended period of time, remove the batteries from the remote control.

Using Remote Control

■ Use the remote control by pointing it towards the remote sensor window of the main unit. Objects between the remote control and sensor window may prevent proper operation.



Cautions regarding use of remote control

■ Do not expose the remote control to shock. In addition, do not expose the remote control to liquids, and do not place it in an area with high humidity.

■ Do not install or place the remote control under direct sunlight. The heat may cause deformation of the unit.

■ The remote control may not work properly if the remote sensor window is under direct sunlight or strong lighting. In such a case, change the angle of the lighting or main unit, or operate the remote control closer to the remote sensor window.

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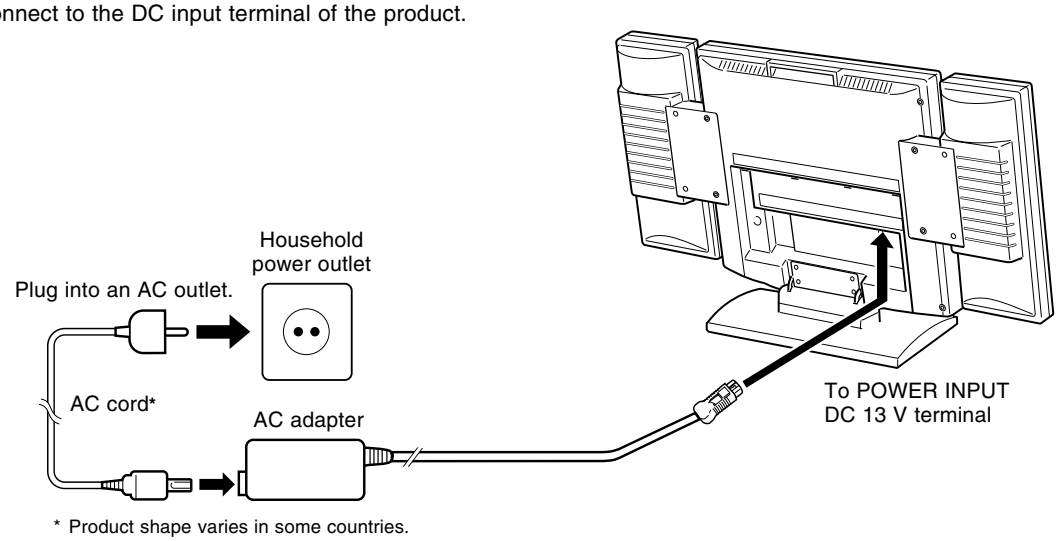
Preparation (Continued)

Power Connection

Connect to the DC input terminal of the product.



* Product shape varies in some countries.

Notes:

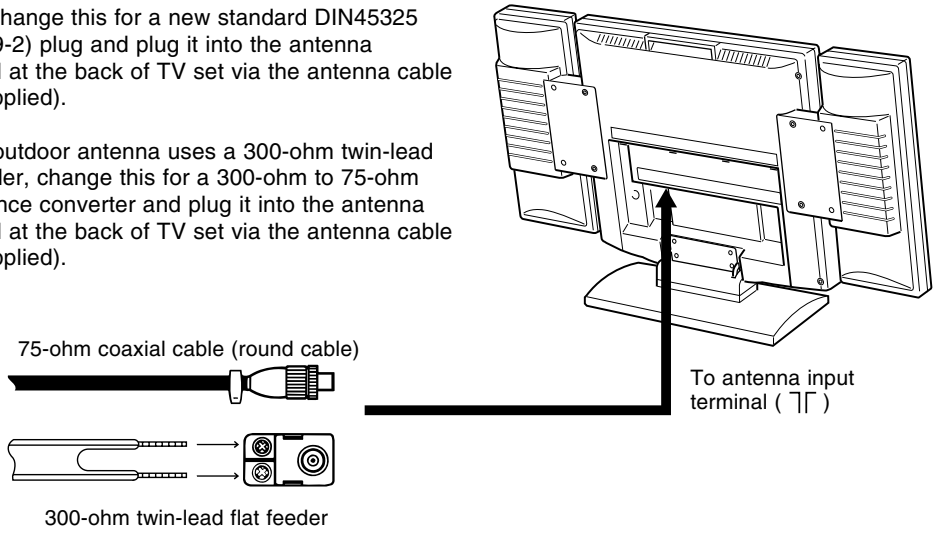
- Always turn the **POWER** switch of the LCD TV set to OFF when connecting the AC adapter.
- Unplug the AC adapter from the LCD TV set and power outlet when the LCD TV set is not to be used for a long period of time.

Antenna Connection

To enjoy a clearer picture, we recommend that you use an outdoor antenna. The following is a brief explanation of the types of connection that are used for coaxial and feeder cables:

(1) If your outdoor antenna uses a 75-ohm coaxial cable, change this for a new standard DIN45325 (IEC169-2) plug and plug it into the antenna terminal at the back of TV set via the antenna cable (not supplied).

(2) If your outdoor antenna uses a 300-ohm twin-lead flat feeder, change this for a 300-ohm to 75-ohm impedance converter and plug it into the antenna terminal at the back of TV set via the antenna cable (not supplied).



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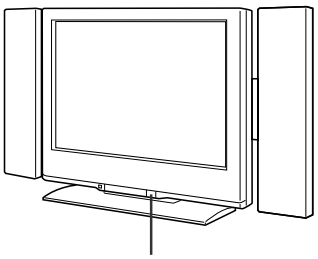
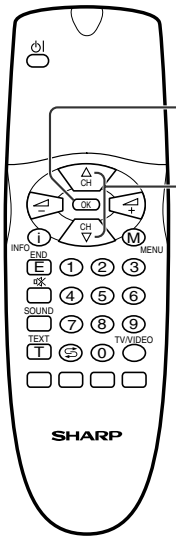
First Installation

When you turn on the LCD TV set for the first time, the First Installation routine, which makes installation easier, is activated. Using this routine, you can select the on-screen display language, and automatically search for and store all the receivable channels.





1 Press **MAIN POWER,** located on the front side of the main unit. The “First installation” screen with a list of the languages for the on-screen display appears.

2 Press **CH (▲)/(▼)** to select the desired language, and then press **OK**. The “Location of TV set” screen appears in the language selected.

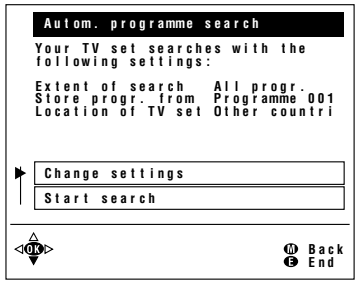
Note:

- You can change the on-screen display language after the First Installation routine by selecting “Language” on the TV menu (see pages 19 and 20).

3 Press **CH (▲)/(▼)** to select the TV set location, and then press **OK**. The “Autom. programme search” screen appears.

4 Press **CH (▲)/(▼)** to select “Start search.”

Location of TV set
Please enter the TV set location for the correct TV standard and the appropriate programme classification for the country:
Other ...
GB Great Britain (PAL-I)
I Italy (PAL-BG)
NL Netherlands (PAL-BG)
PL Poland (PAL-DK)
HU Hungary (SECAM-DK)
SL Slovenia (PAL-DK)
Other countries (Auto,-BG)
Select and proceed with OK
Back
End



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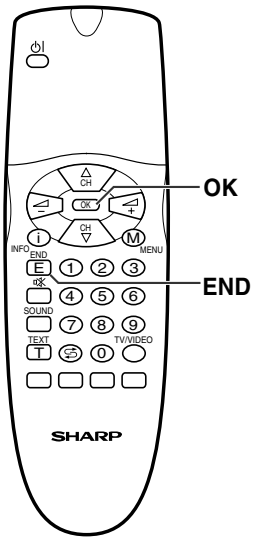
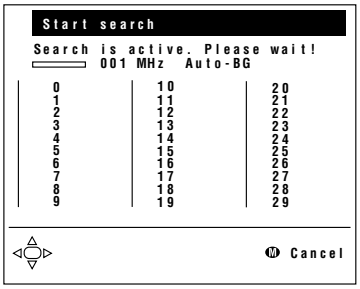
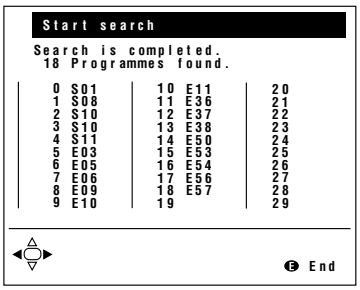
First Installation (Continued)



5 Press **OK** to begin the automatic programme search. The bar on the screen shows the progress.



When the search is completed, the number of the programmes found is displayed. The new programmes found are displayed in blue on the programme list.



6 Press **END** to exit.

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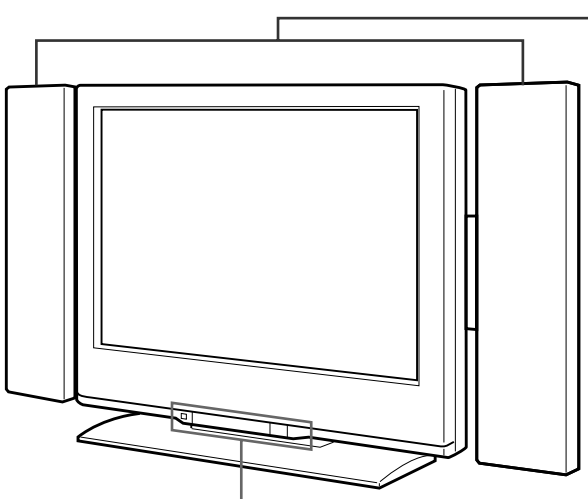
Part Names of Main Unit

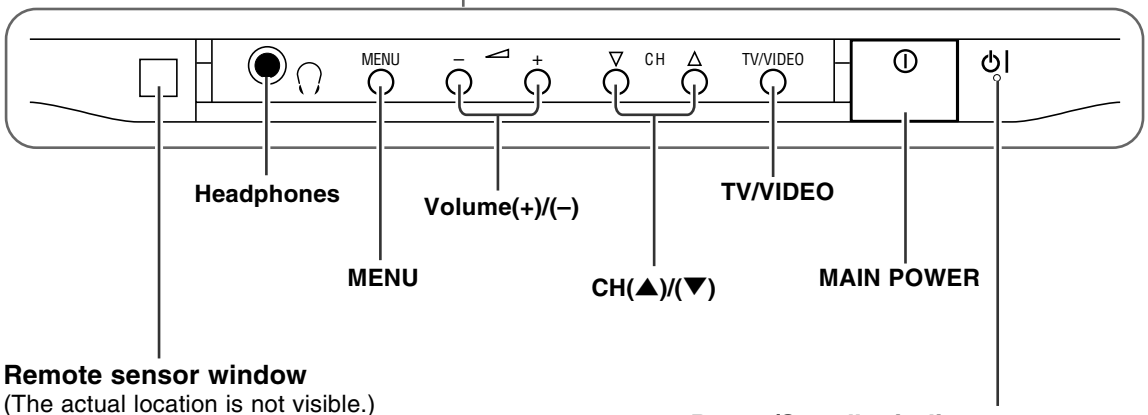
Controls

Front view



To change the vertical angle of the LCD TV set, tilt the screen up to 10 degrees forward or 20 degrees backward. The TV set can also be rotated 90 degrees horizontally. Please adjust the angle so that the TV set can be watched most comfortably.

Front control panel



Headphones

Volume(+)/(–)

TV/VIDEO

MENU

CH(▲)/(▼)

MAIN POWER

Remote sensor window
(The actual location is not visible.)

Power/Standby indicator
A green indicator lights when the power is on and a red indicator lights when in the standby mode (the indicator will not light when the main power is off).

Note:

■ **TV/VIDEO**, **CH(▲)/(▼)**, and **Volume (+)/(–)** on the main unit have the same functions as the same buttons on the remote control. Fundamentally, this operation manual provides a description based on operation using the remote control.

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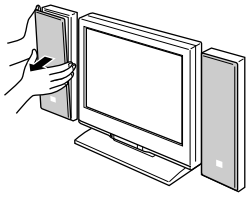
Part Names of Main Unit (Continued)

Replacing the Speaker Net

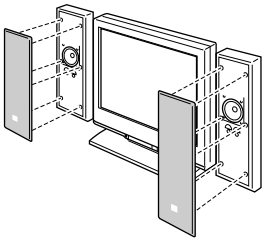
■ **Replacement**

(1) With your hand on the rear of the speaker, grasp both sides of the speaker net with your fingers at the top, centre, then the bottom, and slowly pull the speaker net toward you.



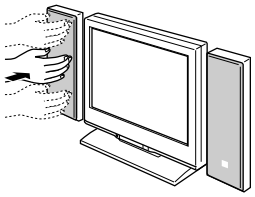
■ **Attachment (left and right)**

(1) Check the (L) and (R) marks on the rear of the speaker net.
(2) Insert the six pins on the rear of the speaker net into the holes in the speaker.
(3) With your hand on the rear of the speaker, press gently against the net at the top, centre, and then bottom with the palm of your hand.



■ **Notes on handling the speaker net**

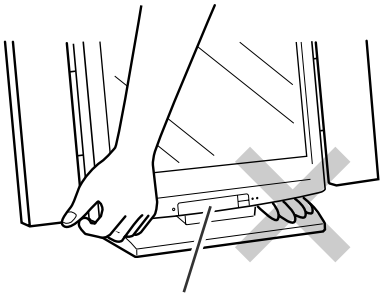
- For regular care and cleaning, wipe away dust and dirty using a duster or soft brush.
- Do not let your nails or other sharp object scratch the speaker net.
- Do not wipe with a house-cloth or use a vacuum cleaner.
- Do not rip the speaker net by touching it with your hand.



Note:

■ The speakers should only be removed by a SHARP service person.

Notes on Lifting



Do not grasp the front cover to carry the product.

Note:

■ Do not reach inside the gap between the installation stand and the unit with your hands. If the stand and unit are inclined, your hands may be caught, resulting in an injury, etc.

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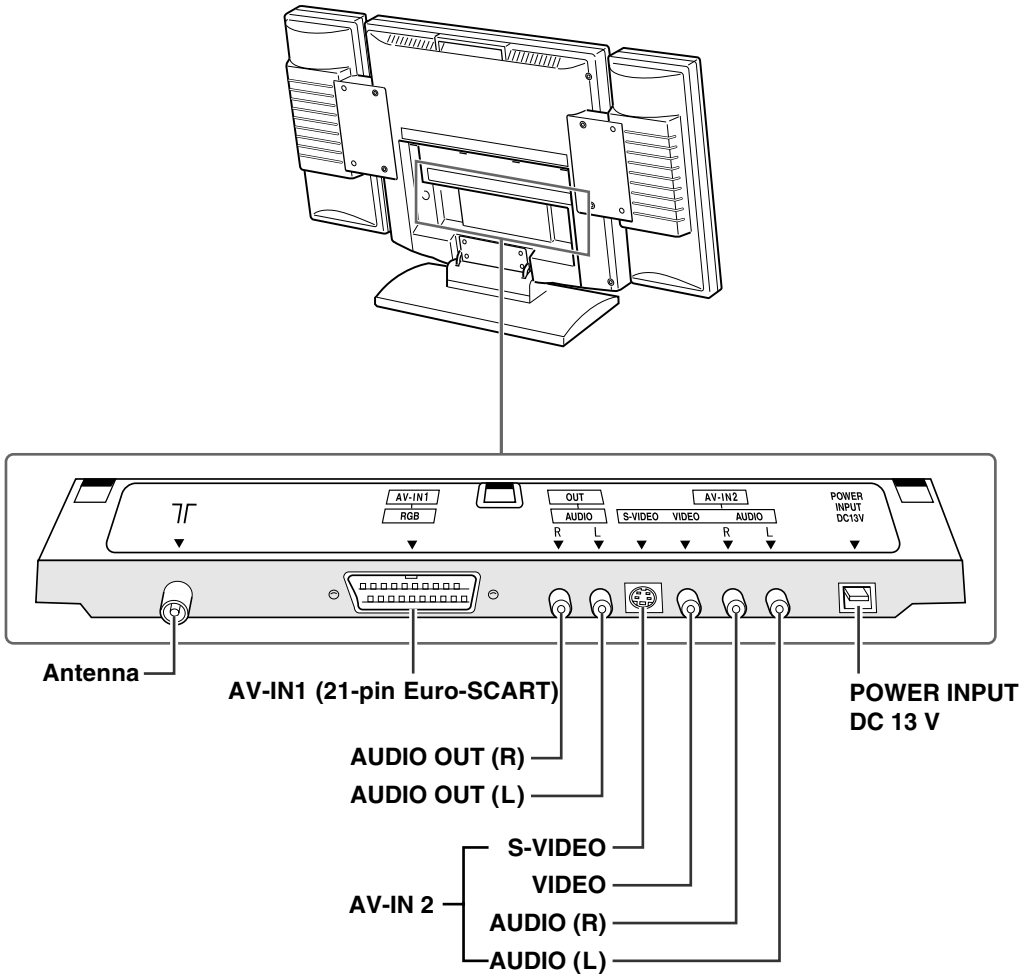
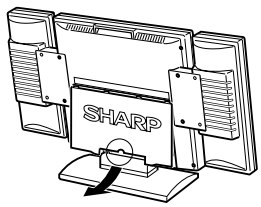
Terminals

Rear view

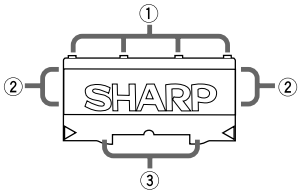


Removing Back Cover

■ When connecting the cords to the terminals, remove the back cover by gently pulling the part marked ◯ forward.



■ To replace the back cover, first fit the four top clips (①) into the corresponding slots of the terminal section, and then align the four side clips (②) with the corresponding slots. Then, press the marked parts (③) until the two hooks on the bottom of the cover lock in place with a click.



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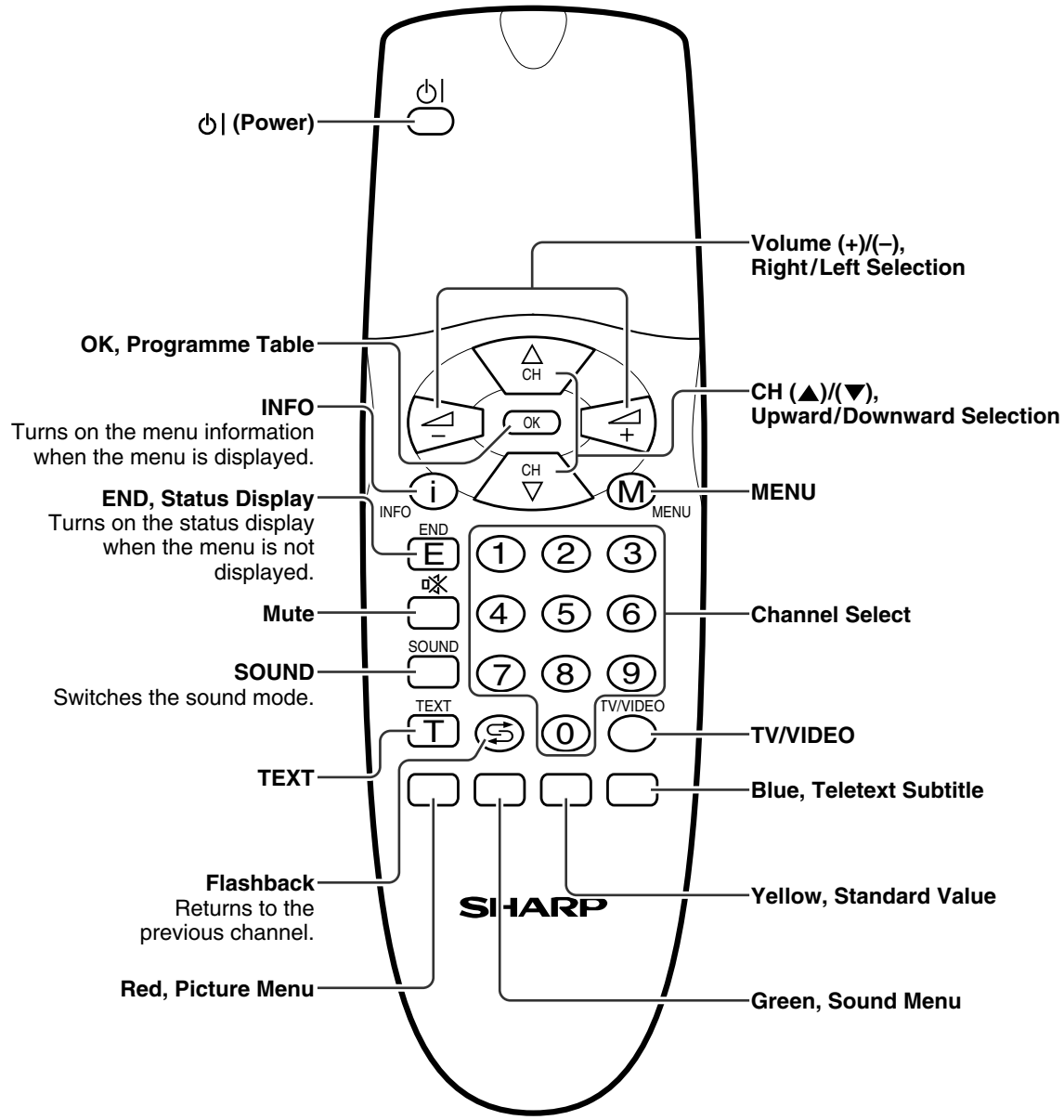
Part Names of Remote Control



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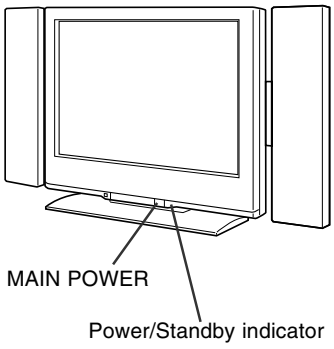
Basic Operation

Turning On and Off the Main Power



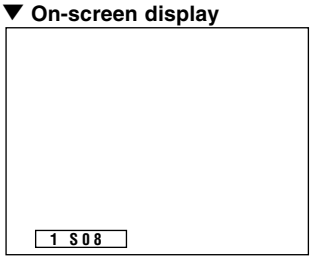
- Press **MAIN POWER**, located on the front side of the main unit. The power indicator instantaneously changes from red to green and the main unit is turned on.

Note:

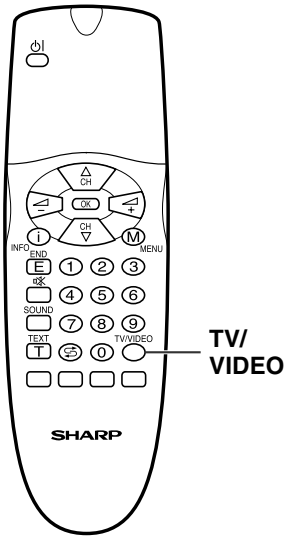
■ The display time of the on-screen indicators can be selected with "On-screen time" for the "On-screen display" menu item in the TV menu (see page 37).

- To turn off the main power, press **MAIN POWER** again. The power indicator instantaneously changes from green to red and the main unit is turned off.

▼ **On-screen display**



Switching the TV/VIDEO (AV1/AV2/AVS/TV) Mode

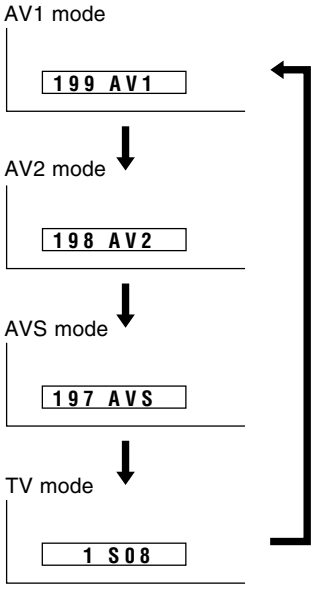


1 Turn on the power of the connected video equipment.

2 Press **TV/VIDEO** to select the applicable input source. The screen displays AV1, AV2, AVS or TV mode each time **TV/VIDEO** is pressed.

Note:

■ About the video modes
- AV1: Select this when viewing the signals from the video equipment connected to the AV-IN1 terminal.
- AV2: Select this when viewing the signals from the video equipment connected to the AV-IN2 terminals using the VIDEO terminal for video input.
- AVS: Select this when viewing the signals from the video equipment connected to the AV-IN2 terminals using the S-VIDEO terminal for video input. (If both the S-VIDEO and VIDEO terminals are connected, the S-VIDEO terminal takes priority.)



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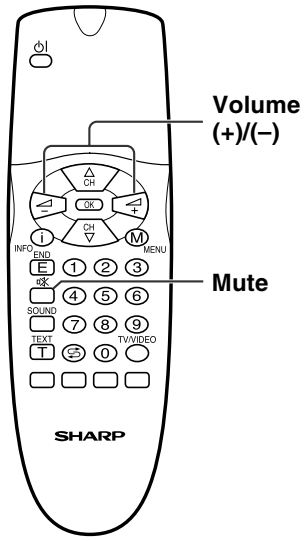
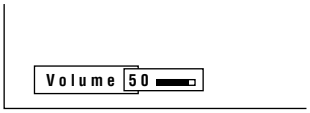
Basic Operation (Continued)

Sound Volume

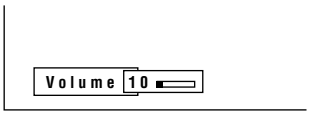


To adjust the volume

- Press **Volume (+)** to increase the sound volume. The numerical value increases.

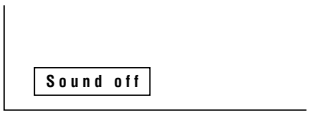


- Press **Volume (–)** to decrease the sound volume. The numerical value decreases.

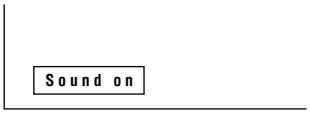


To mute the sound

- Press **Mute** to temporarily turn off the sound. “Sound off” is displayed.



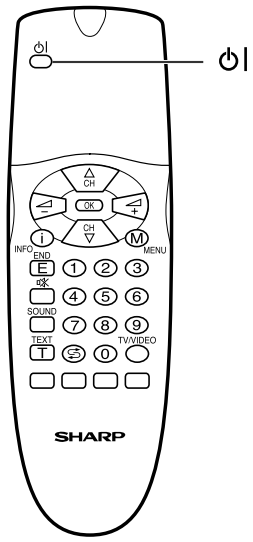
- Press **Mute** to turn off the Mute function. “Sound on” is displayed.



Note:

- When **Volume (+)/(–)** is pressed in the Mute mode, the sound turns on and the volume indicator is displayed.
- The Mute function is cancelled when ⏻| is pressed.

ON/OFF Standby



To turn off the LCD TV

Press ⏻|. The power indicator will turn red.

To turn the LCD TV back on

Press ⏻| again. The power indicator will turn green.

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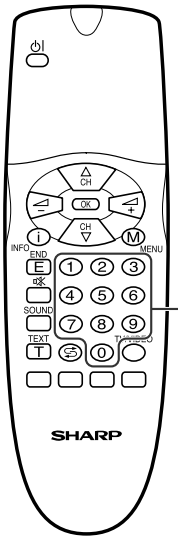
Changing Channels

You can select channels using **Channel Select** or **CH (▲)/(▼)**.

- To handle the increasing number of channels available, this LCD TV set allows you to select up to 200 channels (0 to 199).

Using Channel Select

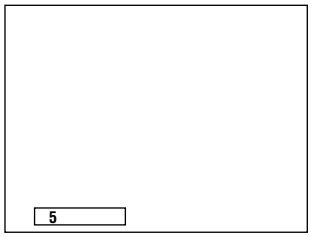
When selecting the channel using **Channel Select**, finish inputting the channel number by holding down the button for the last digit for a moment.



Channel Select

To select a one-digit channel (e.g. Channel 5):

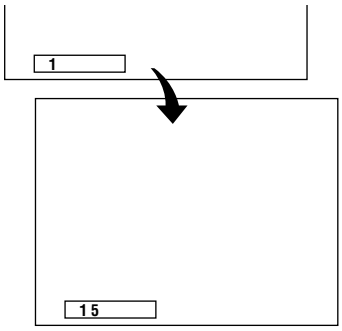
1 Hold down the ⑤ button.



To select a two/three-digit channel (e.g. Channel 15):

1 Press the ① button.

2 Hold down the ⑤ button.



Using CH (▲)/(▼)

Press **CH (▲)** and the channels change in the order shown below:
1 → 2 → 3 → . . . → 198 → 199 → 0 → 1 → 2 → 3 → . . .

Press **CH (▼)** and the channels change in the order shown below:
3 → 2 → 1 → 0 → 199 → 198 → . . . → 3 → 2 → 1 → . . .

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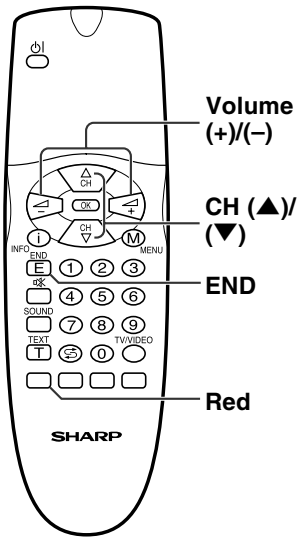
Useful Features

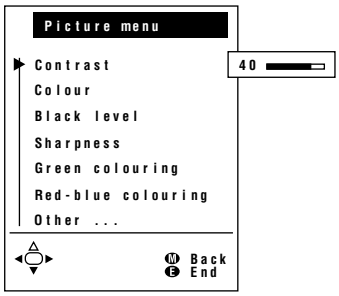
Adjusting Picture Settings



1 Press **Red** to display the Picture screen.

Note:

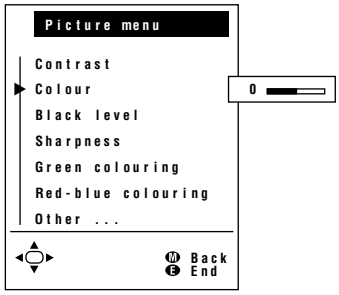
- The Picture screen can also be displayed by selecting “Picture” in the TV menu (see pages 19 and 20).



2 Press **CH (▲)/(▼)** to select the desired adjustment item.
- Select “Other...” to display the other part of the Picture screen.

3 Press **Volume (+)/(–)** to make the adjustment.

4 Press **END** to exit.



Adjustment item	Press Volume (–)	Choice/Value range	Press Volume (+)
Contrast	Decrease contrast	0 – 60	Increase contrast
Colour	Lower colour intensity	-30 – 30	Higher colour intensity
Black level	Less bright	-30 – 30	More bright
Sharpness	Soft picture	0 – 5	Sharp picture
Green colouring	Less green	-5 – 5	More green
Red-blue colouring	More red	-5 – 5	More blue
Tint	Toward purple	-15 – 15	Toward green
Brightness	—	dark⟷medium⟷bright	—
Rotate horizontally	—	off⟷on	—
Rotate vertically	—	off⟷on	—

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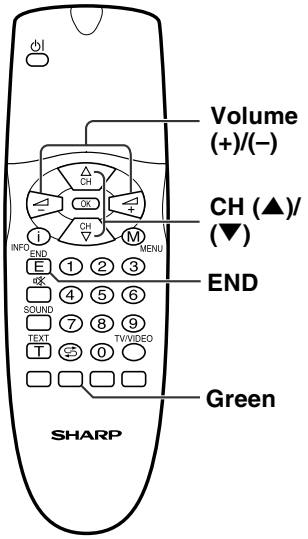
Adjusting Sound Settings



1 Press **Green** to display the Sound screen.

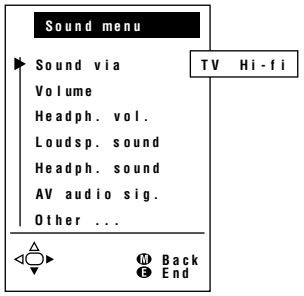
Note:

■ The Sound screen can also be displayed by selecting “Sound” in the TV menu (see pages 19 and 20).

2 Press **CH (▲)/(▼)** to select the desired adjustment item.
- Select “Other...” to display the other part of the Sound screen.

3 Press **Volume (+)/(–)** to make the adjustment.

4 Press **END** to exit.



Adjustment item	Press Volume (–)	Choice/Value range	Press Volume (+)
Sound via	—	TV←→Hi-fi	—
Volume*/Hi-fi volume	Decrease volume	0 – 60	Increase volume
Headph. vol.*	Decrease headphones volume	0 – 60	Increase headphones volume
Loudsp. sound	—	Mono←→Mono!/Sound1←→Sound2←→Sound1+2←→Mono!/Stereo←→Mono!/Nicam←→Mono! (*The choices differ depending on whether or not a NICAM or IGR signal is received.)	—
Headph. sound*			
AV audio sig.	—	Sound1←→Sound2←→Sound1+2	—
Maximum volume*	Decrease maximum volume	10 – 60	Increase maximum volume
Sound wide*	—	off←→on	—
Balance*	Increase the volume of the left speaker	-15 – 15	Increase the volume of the right speaker

* These items are not displayed when the “Sound via” item is set to “Hi-fi”.

Note:

■ In the “AV audio sig.” item, mono-video recorders should select “Sound1” or “Sound2”. Stereo-video recorders should select “Sound1+2” so that the desired sound can be selected when playing back the video.

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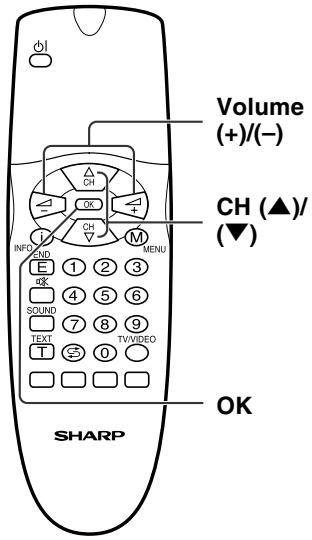
Useful Features (Continued)

Using Programme Table

The Programme table shows a list of all receivable programmes. They are located in channels 0 to 199. The currently selected programme is displayed in blue, and the child-locked programmes are displayed in red.

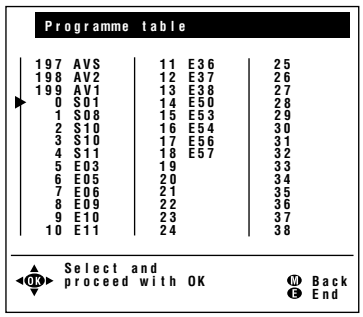


To select the desired programme

1 Press **OK** to display the Programme table.

2 Press **CH (▲)/(▼)** and/or **Volume (+)/(–)** to select the desired programme.
- To display the next or previous list of the Programme table, press **CH (▲)/(▼)** when the cursor is at a programme in the lower-right or upper-left position, or press **Volume (+)/(–)** when the cursor is at a programme in the right or left column.

3 Press **OK** to display the selected programme.



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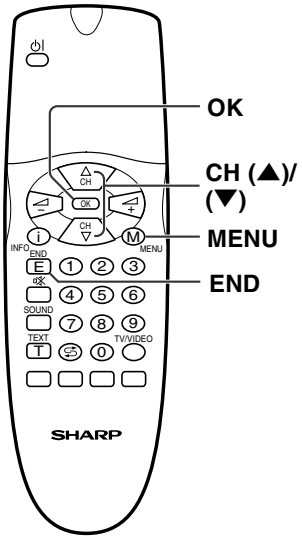
Selecting Menu Items

• The menus can be used to adjust the various settings of your LCD TV set. Select the desired menu item by following the steps below.

■ Using TV Menus

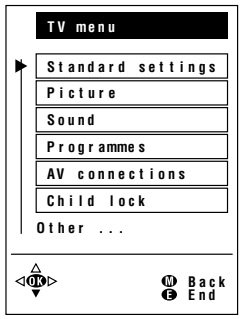


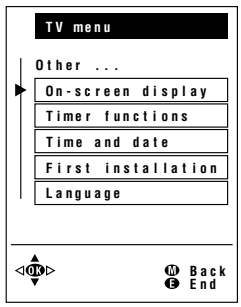
1 Press **MENU** on the remote control to display the TV menu.

2 Press **CH (▲)/(▼)** to select the desired menu item.
- The cursor moves up or down.
- The cursor indicates the selected menu item.
- Select “Other...” to display the other part of the menu.

3 Press **OK** to display the setting screen for the selected menu item.
- See the next page for a table of the setting screens.

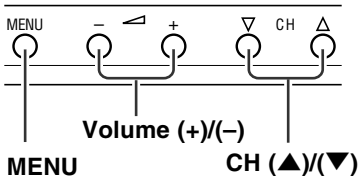
4 Press **MENU** to return to the previous screen or **END** to return to the normal screen.





■ Using Direct Control Menu

Front control panel of the main unit

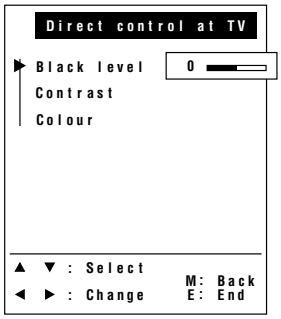


1 Press **MENU** on the main unit to display the Direct Control menu.

2 Press **CH (▲)/(▼)** to select the desired menu item.
- The cursor moves up or down.
- The cursor indicates the selected menu item.

3 Press **Volume (+)/(–)** to make the adjustment.
- See page 16 for details on the use of each item.

4 Press **MENU** to turn off the Direct Control menu.



Notes:
- ■ The items displayed differ depending on the setting conditions.
- ■ The item selected is displayed in blue.
- ■ The adjustment values and settings which were changed before the screen is restored are saved as is in the memory.

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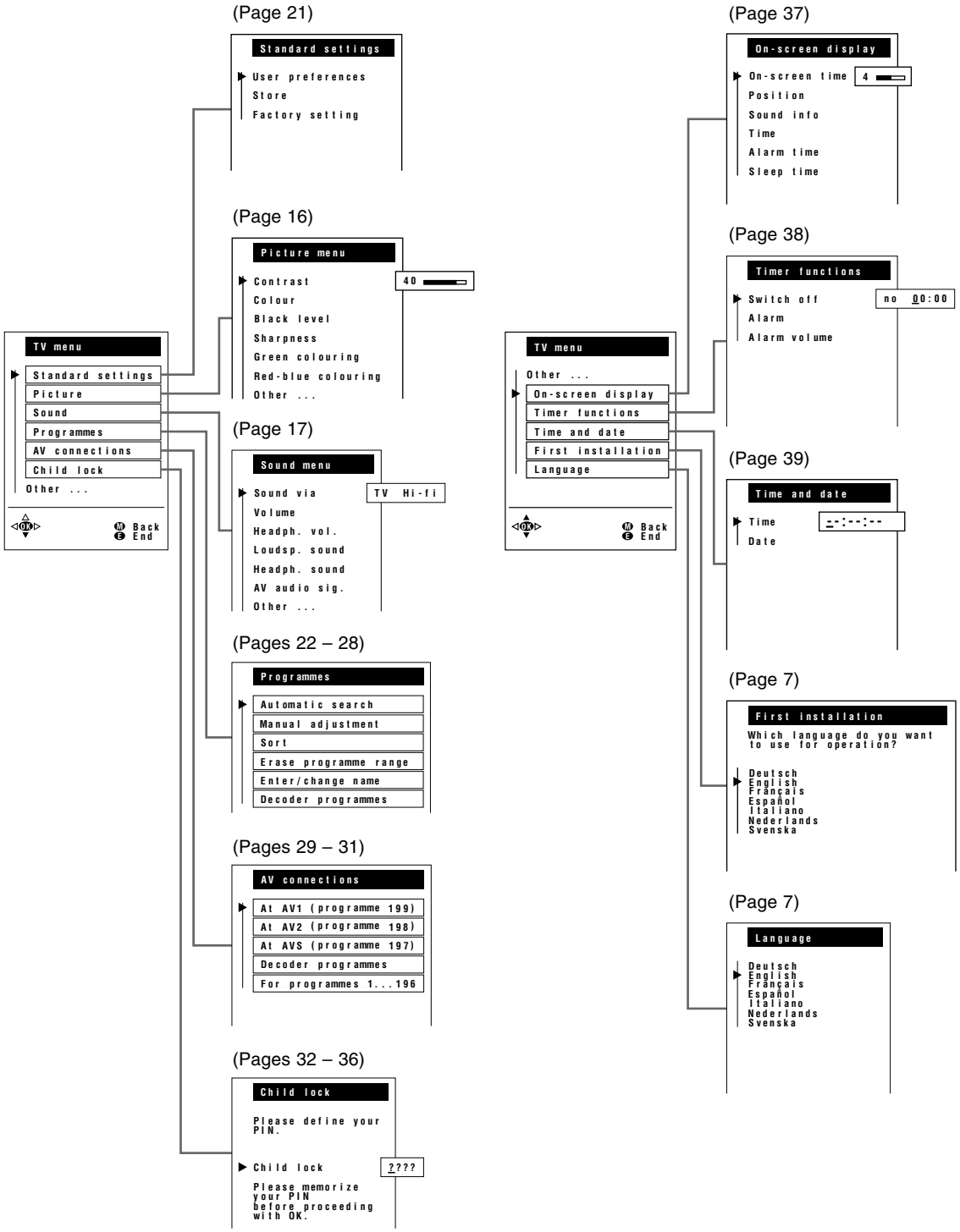
Selecting Menu Items (Continued)

■ TV Menu Setting Screens

For details on using each setting screen, refer to the page number indicated.



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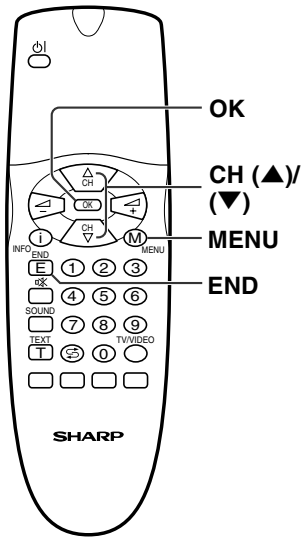
Standard Settings

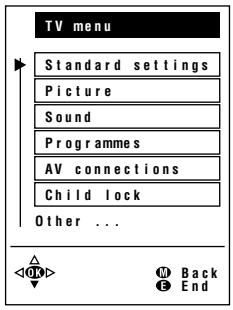
You can optionally set the standard settings for the following adjustments. You can also easily call up those standard settings or factory-preset settings.

- Mute
- Picture menu item: Contrast, Colour, Sharpness, Tint, Brightness
- Sound menu item: Volume, Hi-fi volume, Headph. vol., Balance



1 Press **MENU** to display the TV menu.

2 Press **CH (▲)/(▼)** to select "Standard settings", and then press **OK** to display the "Standard settings" screen.



3 Press **CH (▲)/(▼)** to select the desired function.

- User preferences: The standard settings are retrieved.
- Store: The currently selected settings are stored as the standard settings.
- Factory setting: The factory-preset settings are retrieved.

4 Press **OK** to execute the selected function.

5 Press **END** to exit.

Note:

- You can also call up the standard settings by pressing **Yellow** with the normal screen displayed.

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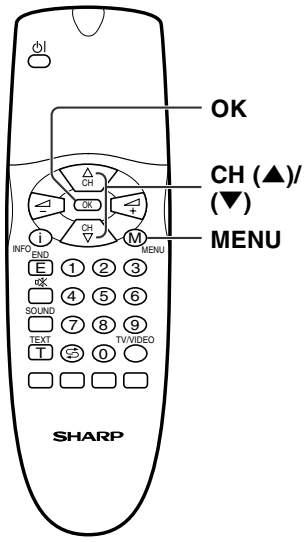
Useful Features (Continued)

Programmes

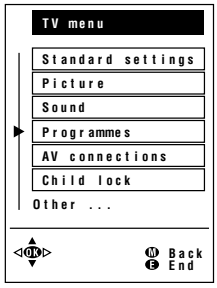
[1] Automatic search

Perform the procedure below to search for and store new programmes after the First Installation routine.

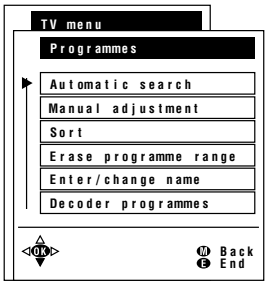


1 Press **MENU** to display the TV menu.

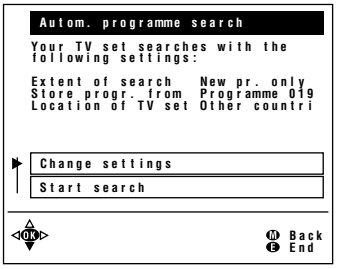
2 Press **CH (▲)/(▼)** to select "Programmes", and then press **OK** to display the "Programmes" screen.



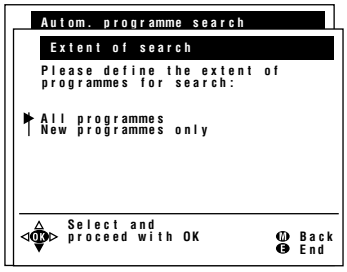
3 Press **CH (▲)/(▼)** to select "Automatic search", and then press **OK** to display the "Autom. programme search" screen.



4 Press **CH (▲)/(▼)** to select "Change settings", and then press **OK** to display the "Extent of search" screen.



5 Press **CH (▲)/(▼)** to select the extent of the programmes to be searched, and then press **OK** to display the "Store progr. from" screen.



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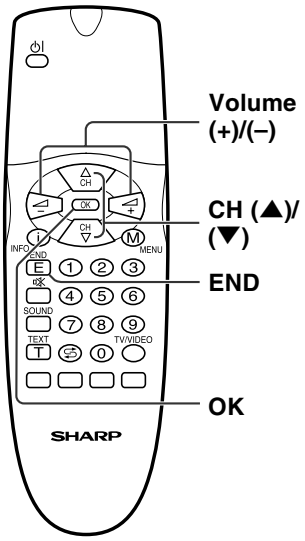
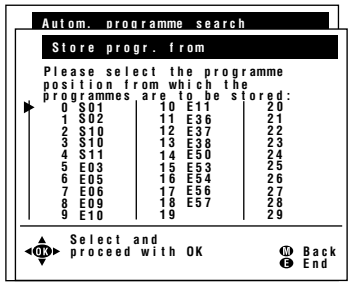
Programmes (Continued)

[1] Automatic search (Continued)

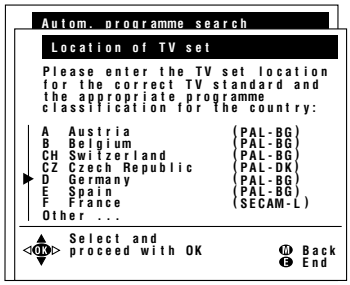


6 Press **CH (▲)/(▼)** and/or **Volume (+)/(–)** to select the programme position from which the programmes are to be stored, and then press **OK** to display the “Location of TV set” screen.


Autom. programme search
Store progr. from
Please select the programme position from which the programmes are to be stored:
0 S01 | 10 E11 | 20
1 S02 | 11 E36 | 21
2 S10 | 12 E37 | 22
3 S10 | 13 E38 | 23
4 S11 | 14 E50 | 24
5 E03 | 15 E53 | 25
6 E05 | 16 E54 | 26
7 E06 | 17 E56 | 27
8 E09 | 18 E57 | 28
9 E10 | 19 | 29
Select and proceed with OK
Back
End

7 Press **CH (▲)/(▼)** to select the TV set location.

- Select “Other...” to display the other part of the country list.

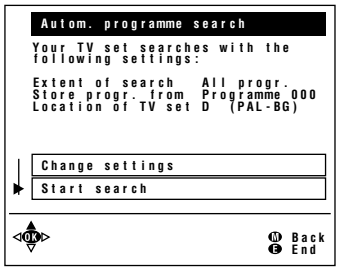

Autom. programme search
Location of TV set
Please enter the TV set location for the correct TV standard and the appropriate programme classification for the country:
A Austria (PAL-BG)
B Belgium (PAL-BG)
CH Switzerland (PAL-BG)
CZ Czech Republic (PAL-DK)
D Germany (PAL-BG)
E Spain (PAL-BG)
F France (SECAM-L)
Other ...
Select and proceed with OK
Back
End

8 Press **OK**. The selected settings are displayed.

9 Press **CH (▲)/(▼)** to select “Start search”, and then press **OK** to begin the automatic programme search.

Note:

■ See pages 7 and 8 for details of the search process.



10 After the search is completed, press **END** to exit.

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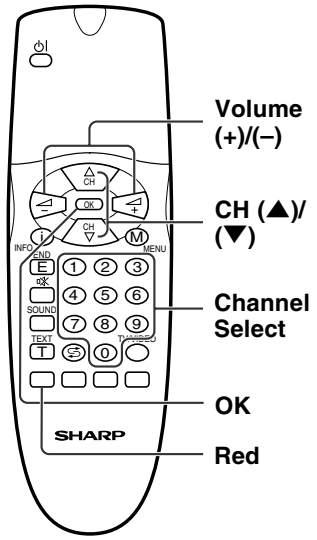
Programmes (Continued)

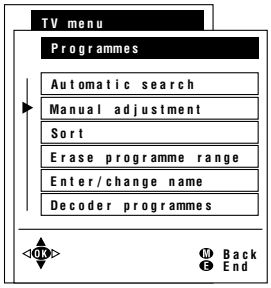
[2] Manual adjustment

Individual settings of programmes can be adjusted.



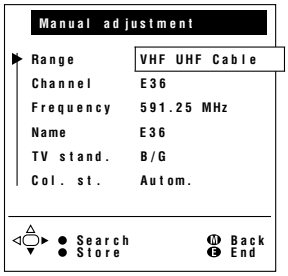
1 Perform steps **1** and **2** in **[1] Automatic search** to display the "Programmes" screen.

2 Press **CH (▲)/(▼)** to select "Manual adjustment", and then press **OK** to display the "Manual adjustment" screen.

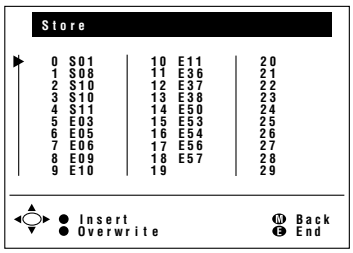


3 Press **CH (▲)/(▼)** to select the item, and then press **Volume (+)/(–)** to make the adjustment. (See the table on the next page for details.)

- You can also use **Channel Select** to adjust the "Channel" and "Frequency" items.
- To adjust "Name", first press **OK** to activate the text input mode. Press **Volume (+)/(–)** to select the input position and press **CH (▲)/(▼)** to select the desired character. When you finish inputting, press **OK** to set the name.



4 Press **Red** to store the adjusted channel. The "Store" screen appears.



5 Press **CH (▲)/(▼)** and/or **Volume (+)/(–)** to select the desired programme position to insert the channel.

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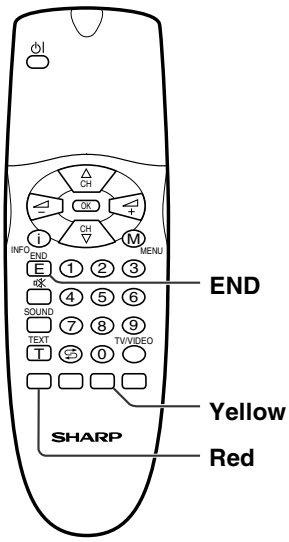
Programmes (Continued)

[2] Manual adjustment (Continued)



6 Press **Yellow** to insert a free programme position for the channel, or press **Red** to overwrite the existing channel on the marked programme position.
- If you press **Yellow**, all subsequent programmes including the marked one move one programme position back.

7 Press **END** to exit.

Adjustment item	Choice/Value range	Description
Range	VHF, UHF, Cable	Receivable ranges depending on TV norm and installation site
Channel	E02 – E12 (VHF, B/G) E21 – E69 (UHF) S01 – S41 (Cable, B/G) A – K (VHF, I), etc.	Receivable channels depending on TV norm, installation site, and range
Frequency	044 – 859 (MHz)	Receivable frequencies depending on TV norm, installation site, and range
Name	A – Z, +, –, ., !, /, 0 – 9	Programme name (up to five characters)
TV stand.	B/G, I, L, D/K, M, N	TV norm
Col. st.	Autom., PAL, SECAM, NTSC-V, PAL-V NTSC, PAL(Norm ⟶ M), etc.	Colour norm

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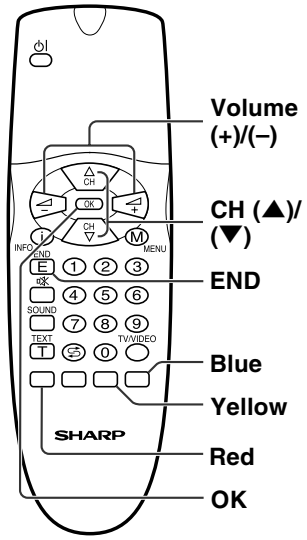
Useful Features (Continued)

Programmes (Continued)

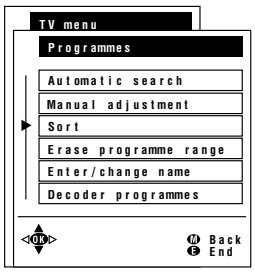
[3] Sort

The programme positions for individual programmes can be freely changed.



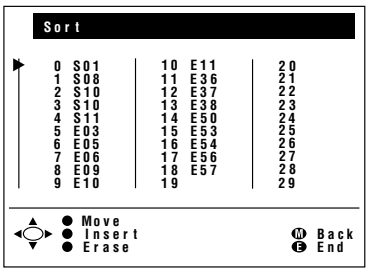
1 Perform steps **1** and **2** in **[1] Automatic search** to display the "Programmes" screen.

2 Press **CH (▲)/(▼)** to select "Sort," and then press **OK** to display the "Sort" screen.



3 Press **CH (▲)/(▼)** and/or **Volume (+)/(–)** to select the desired programme, and then press **Yellow**, **Red**, or **Blue** to sort.

- When **Yellow** is pressed, a free programme position is inserted at the current cursor position. All subsequent programmes including the marked one move one programme position back.
- When **Red** is pressed, the currently marked programme is erased. All subsequent programmes move one programme position up.
- When **Blue** is pressed, the Move mode is activated. Press **CH (▲)/(▼)** to move the currently marked programme to the desired programme position. The marked programme is swapped with the programme at the selected programme position. Press **Blue** to leave the Move mode.



4 Press **END** to exit.

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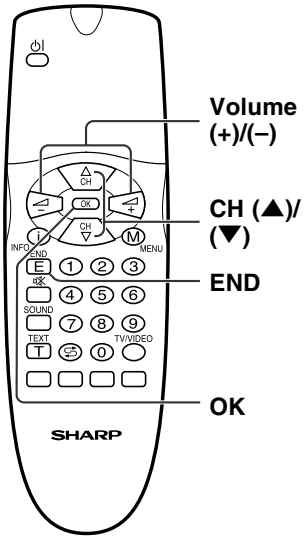
Programmes (Continued)

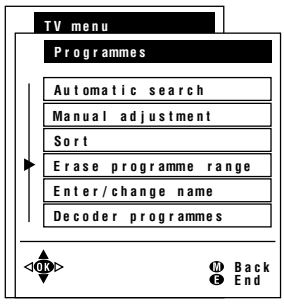
[4] Erase programme range

The individual programmes or programmes in a connected range can be erased.



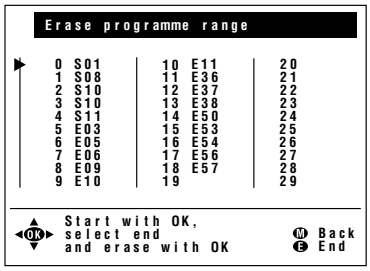
1 Perform steps **1** and **2** in **[1] Automatic search** to display the "Programmes" screen.

2 Press **CH (▲)/(▼)** to select "Erase programme range," and then press **OK** to display the "Erase programme range" screen.

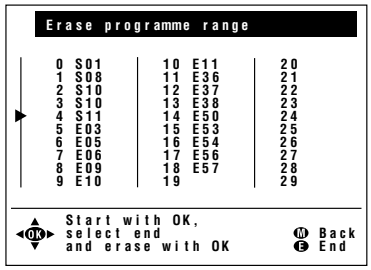


3 Press **CH (▲)/(▼)** and/or **Volume (+)/(–)** to select the programme to be erased, and then press **OK**. The selected programme is shown in blue.

- If you want to erase programmes in a connected range, select the programme at the beginning of the desired range.

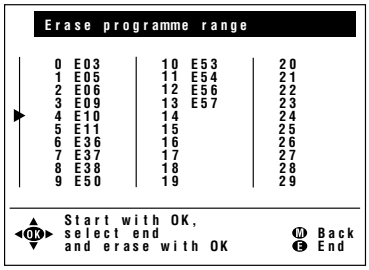


4 If you are erasing programmes in a connected range, press **CH (▲)/(▼)** and/or **Volume (+)/(–)** to select the programme at the end of the range. The selected programmes are shown in blue.



5 Press **OK** to erase the selected programme(s). All the subsequent programmes move up.

6 Press **END** to exit.

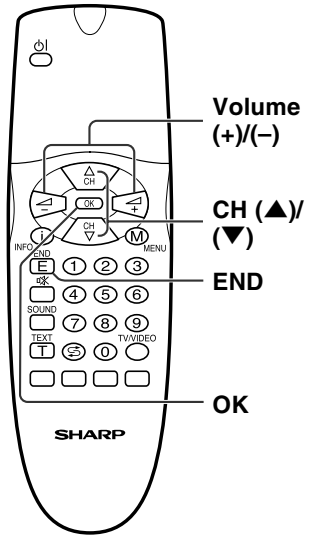


Useful Features (Continued)

Programmes (Continued)

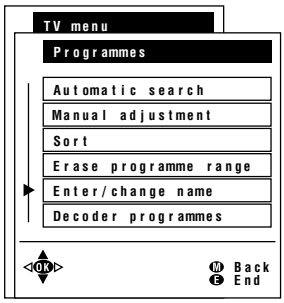
[5] Enter/change name

The name of an individual programme can be entered or changed.

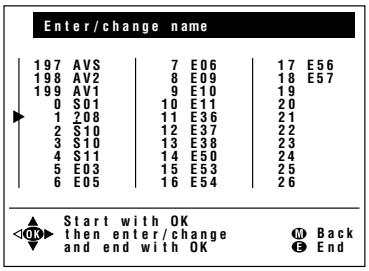


1 Perform steps **1** and **2** in **[1] Automatic search** to display the "Programmes" screen.

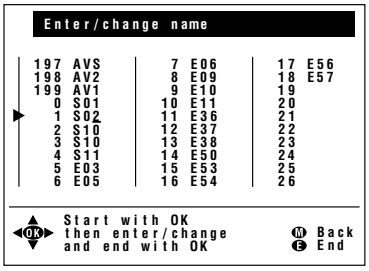
2 Press **CH (▲)/(▼)** to select "Enter/change name," and then press **OK** to display the "Enter/change name" screen.



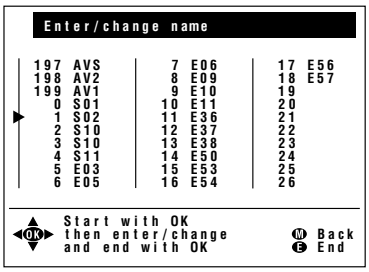
3 Press **CH (▲)/(▼)** and/or **Volume (+)/(–)** to select the desired programme, and then press **OK**. An underscore and question marks are displayed as an input prompt.



4 Press **Volume (+)/(–)** to select the input position, and then press **CH (▲)/(▼)** to select the desired character.



5 Press **OK** to accept the name entered, and then press **END** to exit.



Note:

■ See page 30 for information on how to use the "Decoder programmes" item.

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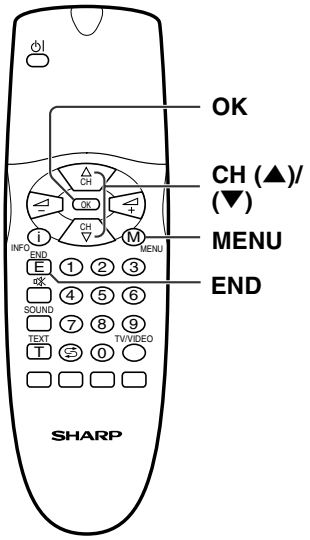
AV Connections

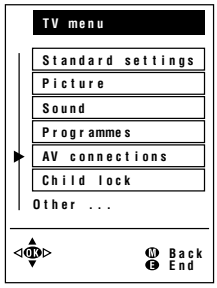
It is possible to manually adjust various settings for connections with external devices on the AV connections screen.

[1] At AV1 (programme 199)/AV2 (programme 198)/AVS (programme 197)

Select the appropriate signal type and colour standard for the signals from the video equipment connected to the AV1, AV2, or AVS terminal.

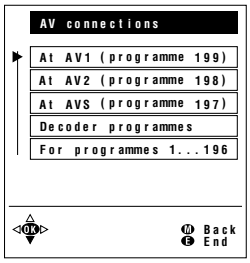


1 Press **MENU** to display the TV menu.

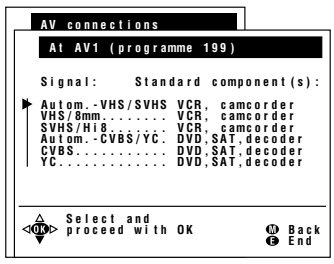


2 Press **CH (▲)/(▼)** to select "AV connections," and then press **OK** to display the "AV connections" screen.

3 Press **CH (▲)/(▼)** to select "At AV1 (programme 199)," "At AV2 (programme 198)," or "At AVS (programme 197)," and then press **OK** to display the signal type selection screen.

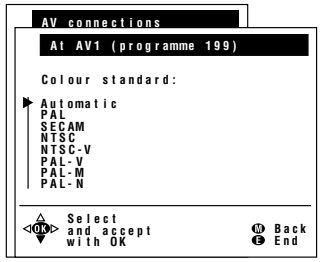


4 Press **CH (▲)/(▼)** to select the desired signal type, and then press **OK**. The colour standard selection screen appears.



5 Press **CH (▲)/(▼)** to select the desired colour standard, and then press **OK**.

6 Press **END** to exit.

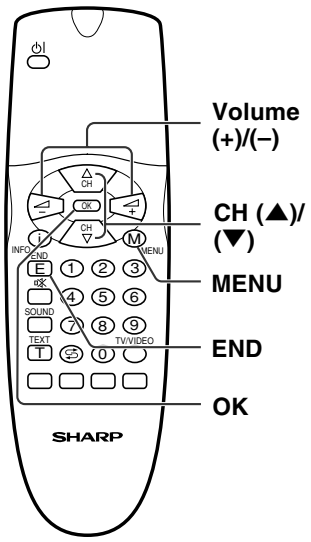


Useful Features (Continued)

AV Connections (Continued)

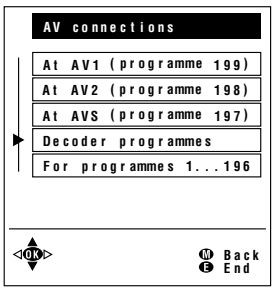
[2] Decoder programmes

When connecting a video device to the AV1 terminal, you need to adjust the decoder programme settings.

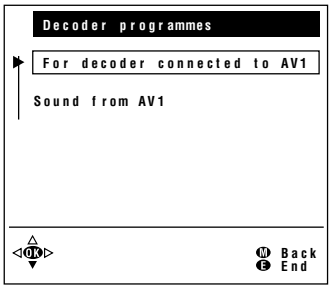


1 Perform steps **1** and **2** in **[1] At AV1 (programme 199)/AV2 (programme 198)/AVS (programme 197)** to display the "AV connections" screen.

2 Press **CH (▲)/(▼)** to select "Decoder programmes," and then press **OK** to display the "Decoder programmes" screen.

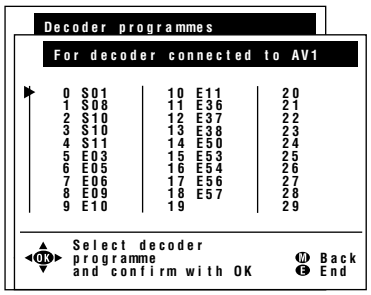


3 Press **CH (▲)/(▼)** to select "For decoder connected to AV1," and then press **OK** to display the decoder programme selection screen.



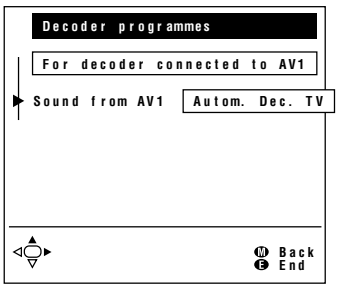
4 Press **CH (▲)/(▼)** and/or **Volume (+)/(–)** to select the programme for the decoder, and then press **OK**. Repeat the same procedure if you want to specify other decoder programmes.

5 Press **MENU** to return to the "Decoder programmes" screen.



6 Press **CH (▲)/(▼)** to select "Sound from AV1", and then press **Volume (+)/(–)** to select the desired sound source.

7 Press **END** to exit.



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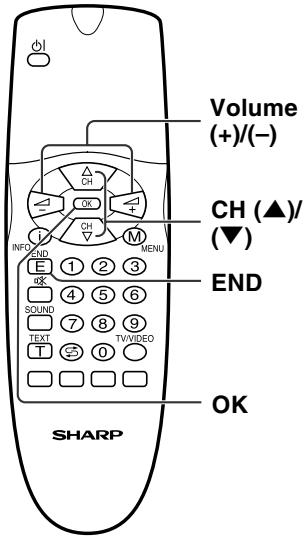
AV Connections (Continued)

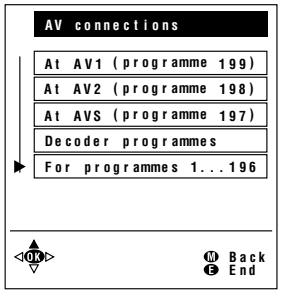
[3] For programmes 1...196

The influence of the AV control voltage and of fast blank at programme positions from 1 to 196 can be set.



1 Perform steps **1** and **2** in **[1] At AV1 (programme 199)/AV2 (programme 198)/AVS (programme 197)** to display the "AV connections" screen.

2 Press **CH (▲)/(▼)** to select "For programmes 1...196," and then press **OK** to display the "For programmes 1...196" screen.

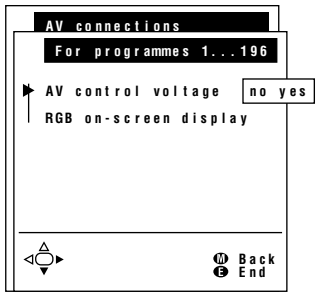


3 Press **CH (▲)/(▼)** to select the desired item.

4 Press **Volume (+)/(–)** to select "yes" or "no."

Note:

- If the item concerned is set to "yes", the appropriate picture is through-connected at all programme positions from 1 to 196 when a control voltage/an RGB signal is applied.



5 Press **END** to exit.

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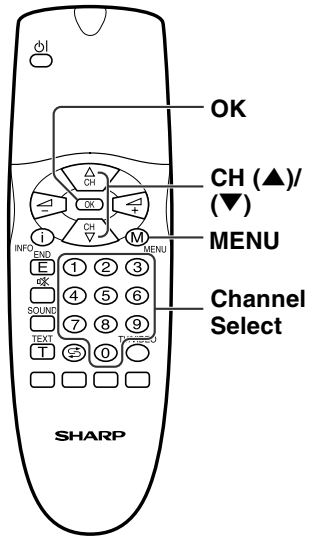
Useful Features (Continued)

Child Lock

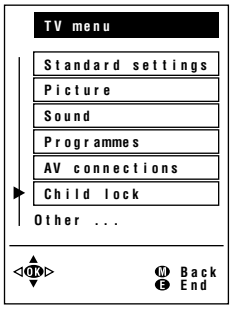
The Child Lock function blocks the viewing of any channel for which the child lock has been set.
To use the Child Lock function, you first need to define your PIN (Personal Identification Number).

[1] Defining a PIN



1 Press **MENU** to display the TV menu.

2 Press **CH (▲)/(▼)** to select “Child lock.”



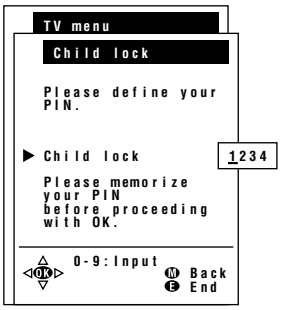
3 Press **OK** to display the PIN input screen.

4 Input the desired four-digit PIN (e.g. 1234) with **Channel Select**.

Notes:

- Be sure to make a note of your PIN before pressing **OK**.
- The PIN will not be set if **MENU** or **END** is pressed before the fourth digit has been input.

5 Press **OK** to accept the entered PIN.



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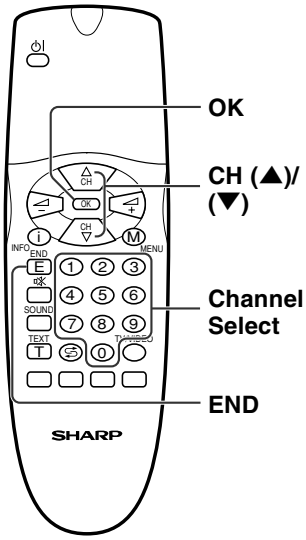
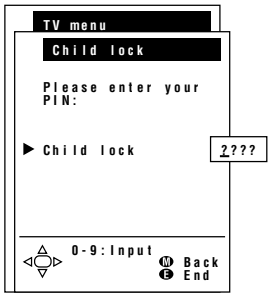
Child Lock (Continued)

[2] Changing/Cancelling a PIN



To change a PIN

1 Perform steps **1** to **3** in **[1] Defining a PIN** to display the PIN input screen.



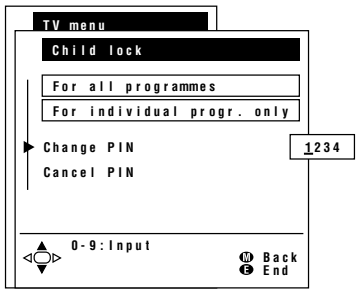
2 Enter your four-digit PIN (e.g. 1234) with **Channel Select**.

Notes:

- Numbers entered are hidden with ????.
- If the PIN has been input incorrectly, “Wrong PIN!” is displayed.

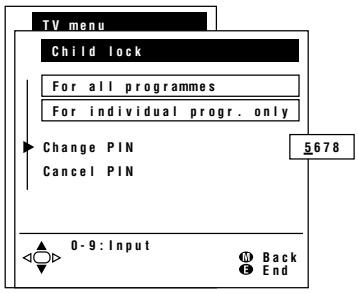
When the PIN is correctly entered, the “Child lock” screen appears.

3 Press **CH (▲)/(▼)** to select “Change PIN.” The currently defined PIN is displayed.



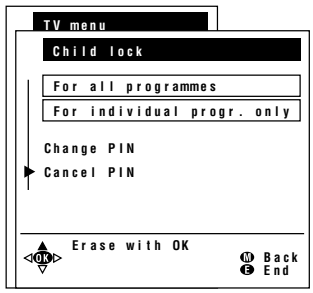
4 Input the new four-digit PIN (e.g. 5678) with **Channel Select**.

5 Press **END** to exit.



To cancel a PIN

- In step **3** above, press **CH (▲)/ (▼)** to select “Cancel PIN,” and then press **OK** to cancel the currently defined PIN.



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Useful Features (Continued)

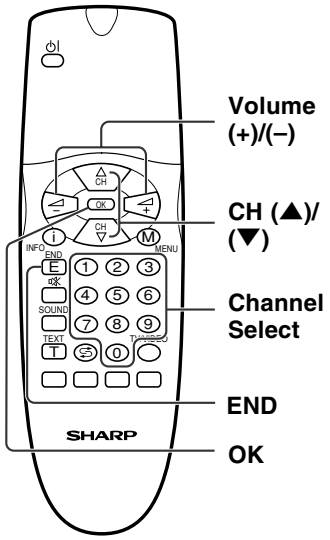
Child Lock (Continued)

[3] Setting Child Lock

There are four different ways of activating a child lock:

1. General child lock for all programmes immediately
2. General child lock for all programmes with daily time limit
3. General child lock for all programmes with single time limit
4. Programme-position related child lock without time limit

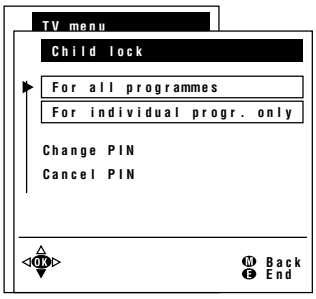
The Child Lock comes into effect only after the LCD TV set has entered the standby mode and is then turned on again.



To set a Child Lock for all programmes with a time limit

1 Perform steps **1** to **3** in **[2] Changing/Cancelling a PIN** to display the “Child lock” screen.

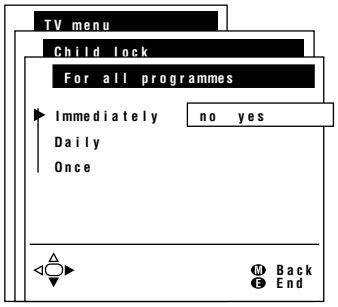
2 Press **CH (▲)/(▼)** to select “For all programmes,” and then press **OK** to display the “For all programmes” screen.



3 Press **CH (▲)/(▼)** to select the desired item. (See the table below.)

4 Press **Volume (+)/(–)** to select the desired choice, and, if required, input digits with **Channel Select**.

5 Press **END** to exit.



Notes:

- If the current clock time is within the time limit, the Child Lock is activated immediately after the LCD TV set is turned off and on again. For example, if the current clock time is 9:00 and the time limit is specified from 22:00 to 14:00, the lock is effective from 9:00 to 14:00.
- When a Child Lock is set for all programmes with a time limit, the “Time and date” item is not displayed in the TV menu and cannot be selected.

Adjustment item	Choice/Input value	Description
Immediately	no⟷yes	Select “yes” to activate the Child Lock immediately (after the LCD TV set has been turned off and on again). The lock remains effective until “no” is selected.
Daily	no⟷HH:MM-HH:MM	Input the start and end time for a daily-recurring Child Lock. The lock is activated everyday unless “no” is selected.
Once	no⟷HH:MM-HH:MM	Input the start and end time for a once-only Child Lock. The length of the period should be up to 24 hours.

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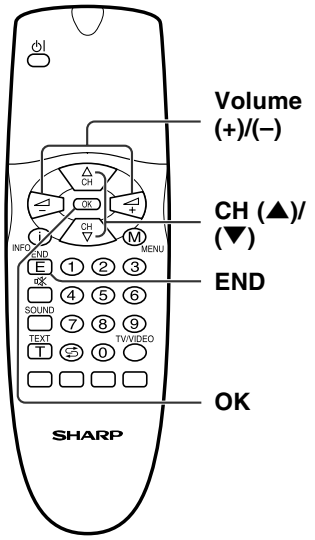
Child Lock (Continued)

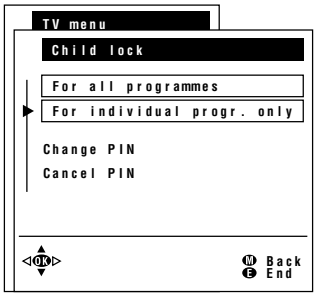
[3] Setting Child Lock (Continued)



To set a Child Lock for individual programmes without time limit

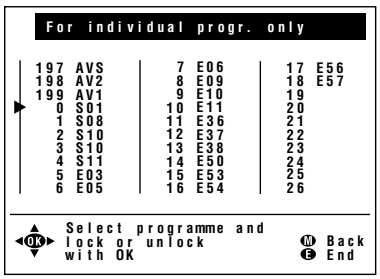
1 Perform steps **1** to **3** in **[2] Changing/Cancelling a PIN** to display the “Child lock” screen.

2 Press **CH (▲)/(▼)** to select “For individual progr. only,” and then press **OK** to display the “For individual progr. only” screen.



3 Press **CH (▲)/(▼)** and/or **Volume (+)/(–)** to select the desired programme.

4 Press **OK** to lock the programme. The locked programme is displayed in red.



Notes:

- To unlock the programme, select the programme and press **OK**.
- The Child Lock remains effective until it is cancelled.

5 Press **END** to exit.

Note:

- When a Child Lock is activated, the “Programmes” item is not displayed in the TV menu and cannot be selected.

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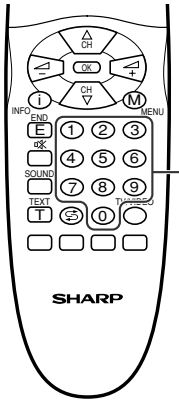
Useful Features (Continued)

Child Lock (Continued)

[4] Temporarily cancelling the Child Lock setting

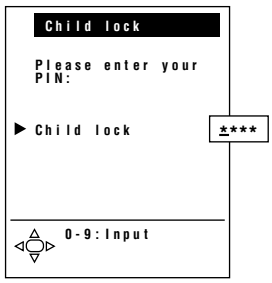
You can view a programme for which a Child Lock has been set by temporarily cancelling the Child Lock setting. Perform the procedure below to input your PIN and cancel the Child Lock if you are prompted to do so.



- When the PIN input screen appears, input your PIN with **Channel Select**. The normal screen appears when the PIN is correctly entered.

Note:

- If the PIN has been input incorrectly, “Wrong PIN!” is displayed.



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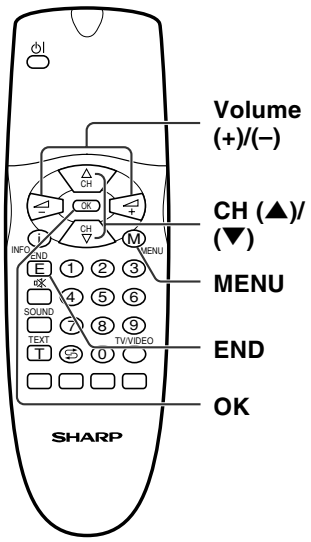
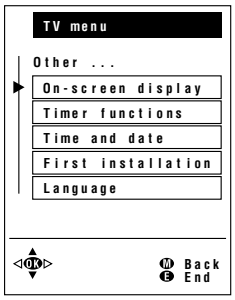
On-screen Display

You can adjust various settings for on-screen displays.



1 Press **MENU** to display the TV menu.

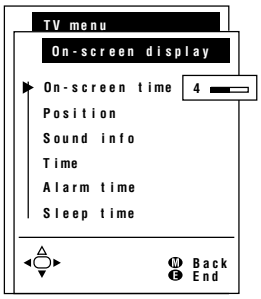
2 Press **CH (▲)/(▼)** to select "On-screen display," and then press **OK** to display the "On-screen display" screen.



3 Press **CH (▲)/(▼)** to select the desired adjustment item. (See the table below.)

4 Press **Volume (+)/(–)** to make the adjustment.

5 Press **END** to exit.



Adjustment item	Choice/Value range	Description
On-screen time	2 – 9	To select display time in seconds for the information windows (TV status, programme identification, volume, etc.), Direct Control menu, and certain messages.
Position	bottom ⟷ top	To select display position of information windows.
Sound info	no ⟷ yes	To select information displays is selected to be turned on or off in the TV status window.
Time	no ⟷ yes	
Alarm time	no ⟷ yes	
Sleep time	no ⟷ yes	

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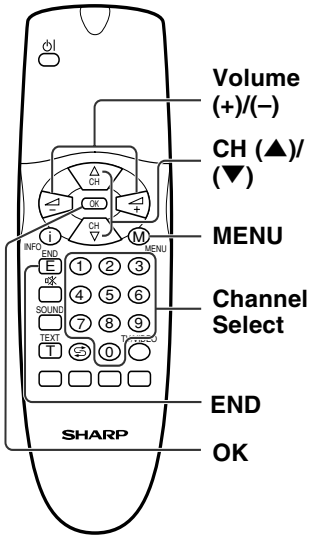
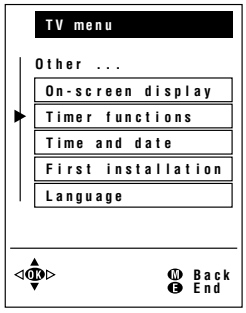
Useful Features (Continued)

Timer Functions



1 Press **MENU** to display the TV menu.

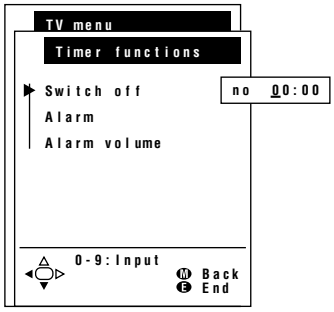
2 Press **CH (▲)/(▼)** to select "Timer functions," and then press **OK** to display the "Timer functions" screen.



3 Press **CH (▲)/(▼)** to select the desired item. (See the table below.)

4 Press **Volume (+)/(–)** to make the adjustment. If you select "00:00" for "Switch off" or "Alarm," input the desired time with **Channel Select**.

5 Press **END** to exit.



Adjustment item	Choice/Input value/Value range	Description
Switch off	no ⟷ HH:MM	The LCD TV set automatically turns off at the specified time everyday.
Alarm	no ⟷ HH:MM	The alarm sound turns on at the specified time everyday.
Alarm volume	0 – 39	The volume of the alarm sound is selected.

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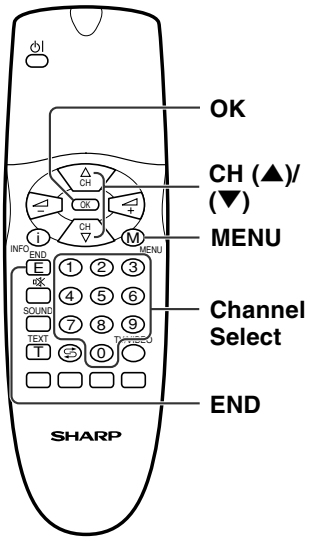
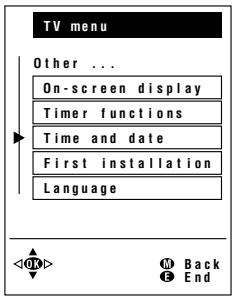
Setting Time and Date (Manual)

The time and the date can be manually set if the LCD TV set is unable to get these from the Teletext function.



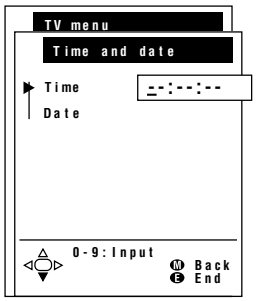
1 Press **MENU** to display the TV menu.

2 Press **CH (▲)/(▼)** to select “Time and date,” and then press **OK** to display the “Time and date” screen.



3 Press **CH (▲)/(▼)** to select “Time.”

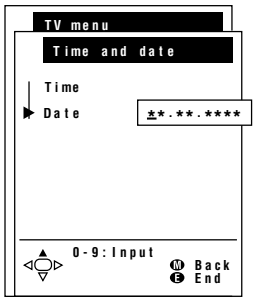
4 Input the current time (HH:MM:SS) with **Channel Select**.



5 Press **CH (▲)/(▼)** to select “Date.”

6 Input the current date (DD:MM:YYYY) with **Channel Select**.

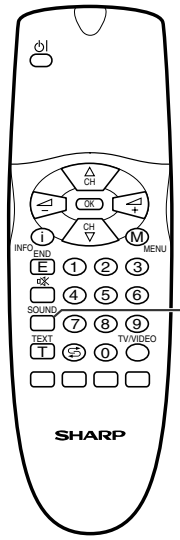
7 Press **END** to exit.



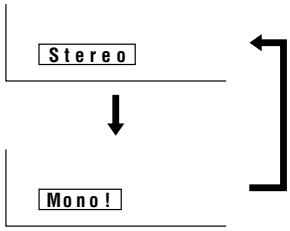
Useful Features (Continued)

NICAM Broadcast Selection

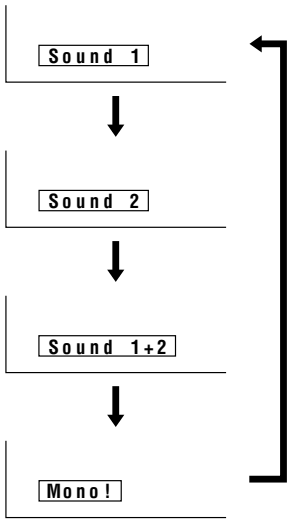
This enables the selection of the reception mode when receiving a NICAM-I or NICAM-B/G signal. To let you enjoy NICAM broadcasting, this LCD TV set receives NICAM system stereo, bilingual, and monaural broadcasts.



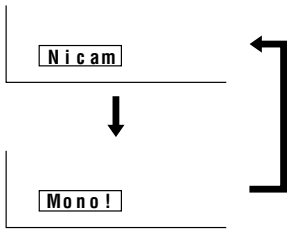
Stereo
The LCD TV set is receiving a stereo broadcast.
- Each time you press **SOUND**, the mode changes between “Stereo” and “Mono!.”
- When “Mono!” is selected, the TV sound is output monaurally.



Bilingual
When the LCD TV set is receiving a bilingual programme, the “Sound1” mode is automatically selected.
- Each time you press **SOUND**, the mode changes as follows:
  Sound 1 → **Sound 2** → **Sound 1+2** → **Mono!**



Monaural
The LCD TV set is receiving a monaural broadcast.
- Each time you press **SOUND**, the mode changes between “Nicam” and “Mono!.”



Notes:
- If approximately 3 seconds pass without a button being pressed, the mode setting is automatically terminated and the LCD TV set returns to the normal mode.
- The setting can be individually selected for each channel number.
- You can also turn off the NICAM mode by setting the “Loudsp. sound” item to “Mono!” in the Sound screen, which is displayed when you press **Green** (see page 17).

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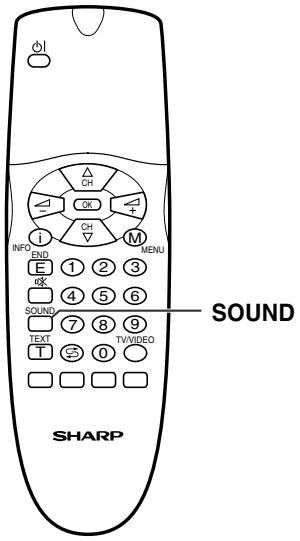
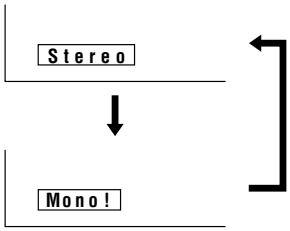
IGR (German stereo system) Broadcasts

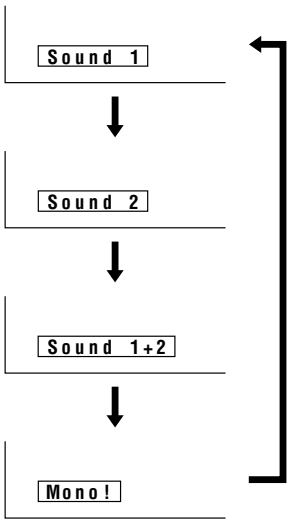
This enables the selection of the reception mode when receiving an IGR-B/G signal. To let you enjoy IGR broadcasting, this LCD TV set receives IGR system stereo and bilingual broadcasts.



Stereo
The LCD TV set is receiving a stereo broadcast.
- Each time you press **SOUND**, the mode changes between “Stereo” and “Mono!.”
- When “Mono!” is selected, the TV sound is output monaurally.



Bilingual
When the LCD TV set is receiving a bilingual programme, the “Sound 1” mode is automatically selected.
- Each time you press **SOUND**, the mode changes as follows:
  Sound 1 → **Sound 2** → **Sound 1+2** → **Mono!**



Notes:
- If approximately 3 seconds pass without a button being pressed, the mode setting is automatically terminated and the LCD TV set returns to normal mode setting.
- The setting can be selected individually for each channel number.
- You can also turn off the IGR mode by setting the “Loudsp. sound” item to “Mono!” in the Sound screen, which is displayed when you press **Green** (see page 17).

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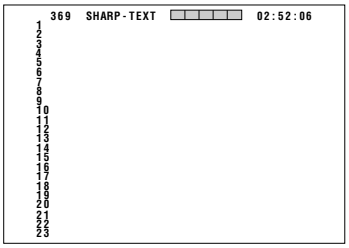
Teletext

■ **What is Teletext?**

Teletext is an information service organized like a magazine, which is provided by some TV stations in addition to regular television broadcasting. Your LCD TV set receives special Teletext signals broadcast by a TV station, processes the information and displays it graphically on the screen. News, weather and sports information, stock exchange prices, program previews and closed captioning for the deaf are among the many services available through Teletext.

■ **Teletext mode**

Teletext is activated with **TEXT** on the remote control and is also closed with it. The LCD TV set can be controlled in Teletext mode either directly by inputting commands with the remote control or indirectly through the on-screen display.

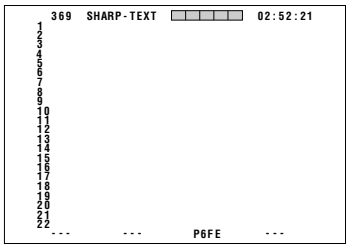


■ **Operating instructions in Teletext mode**

Only lines 0 to 23 (one transmitted Teletext page) can be displayed on the screen simultaneously. When you turn on a control line holding the operating instructions for TOP text or subpages, it is superimposed on line 23. Only one control line can be displayed at one time.

The function executed with a control line displayed is not implemented additionally. This means specifically:

- If FLOF Teletext is broadcast, a control line is transmitted as the 24th line, which cannot be displayed on the screen, so it is superimposed on line 23. To prevent constant loss of information on line 23, turn off the control line.
- If TOP Teletext is broadcast, a control line, TOP line, can be displayed on the screen. The TOP line involves the operating instructions associated with all of the coloured buttons if TOP text is transmitted, or the operating instructions for only **Red** and **Green** if TOP text is not being transmitted.
- If there are subpages, a control line holding the operating instructions for subpages can be displayed on line 23.



Note:

■ The subtitles page may differ according to the country of operation and therefore must be set accordingly.

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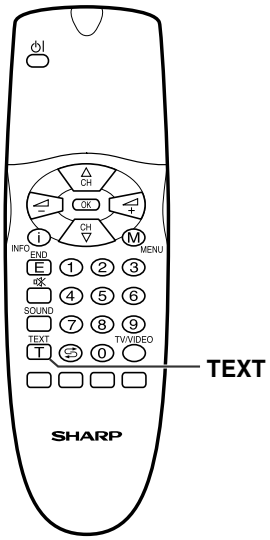
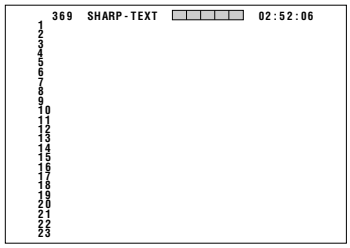
[1] Turning on and off Teletext mode



1 Select a TV channel that is broadcasting the Teletext programme.

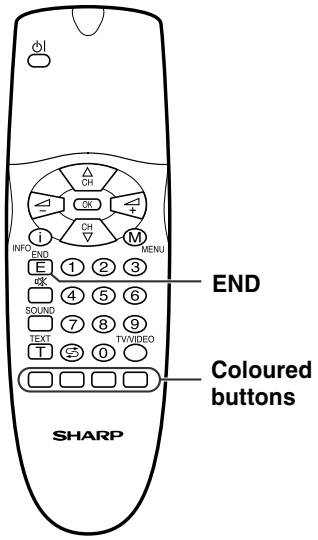
2 Press **TEXT**. The Teletext screen appears.

- To turn off Teletext mode, press **TEXT** again.



[2] Using the TOP line

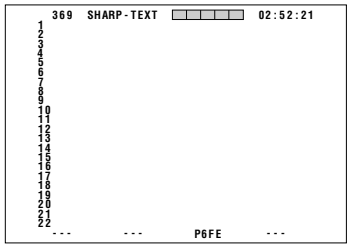
When TOP Teletext is being broadcast, you can display the TOP line, which contains the operating instructions on the screen.



1 Press any **Coloured button** to display the TOP line.

2 Use the **Coloured buttons** to operate the Teletext screen.
- Press **Red** to display the previous page and **Green** to display the next page. **Yellow** and **Blue** are as indicated on the TOP line.

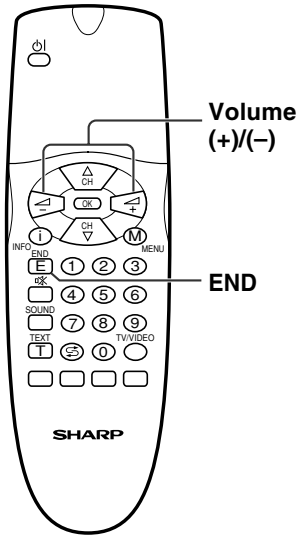
3 Press **END** to turn off the TOP line.



Teletext (Continued)

[3] Changing subpages

If a page has been selected from among several subpages, you can display a control line which contains the subpage numbers.



1 Press **Volume (+)/(–)**. The control line with the subpage numbers is superimposed on line 23, and the number of the currently selected subpage is displayed in blue.

Note:

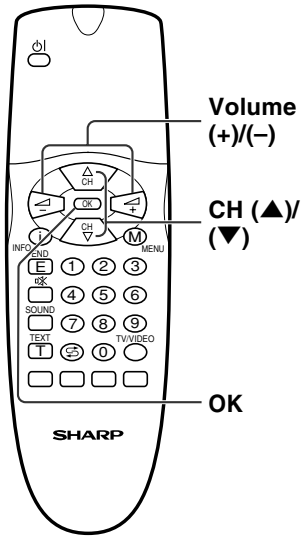
- Page numbers can be displayed for up to eight subpages simultaneously. If there are more than eight subpages attached to a page, the existing subpages are repeatedly overwritten.

2 Press **Volume (+)/(–)** to select the desired subpage number. The selected subpage is displayed.

3 Press **END** to turn off the control line.

[4] Using the TOP table

When TOP Teletext is being broadcast, you can display the TOP table with the current programme data if one exist.



1 Press **OK** to display the TOP table. The Teletext page is temporarily turned off.

2 Press **CH (▲)/(▼)** to select the desired item. Press **Volume (+)/(–)** to select topics (column 1) or subtopics (column 2) if they exist.

3 Press **OK**. A page associated with the selected item is displayed.

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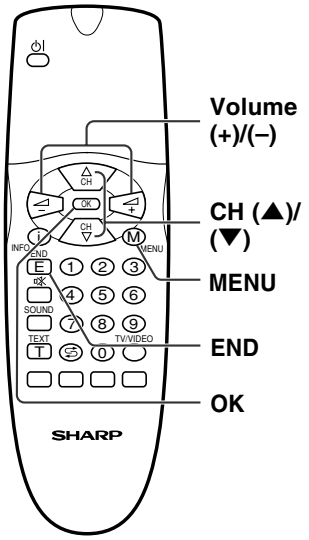
[5] Using Teletext menu

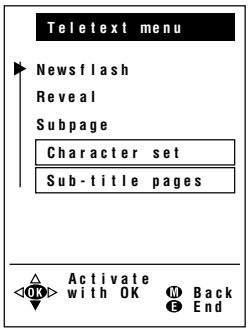


1 Press **MENU** in Teletext mode to display the Teletext menu.

2 Press **CH (▲)/(▼)** to select the desired item.

3 Perform the required operation for the item. (See the table below.)

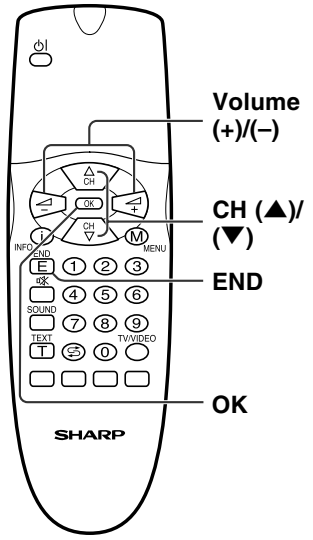
4 Press **MENU** or **END** to exit.



Item	Description
Newsflash	You can activate Newsflash mode by pressing **OK**. To turn off Newsflash mode, press **OK** or **MENU**.
Reveal	You can reveal hidden information (application e.g. in puzzle solutions or VPS times). Press **Volume (+)/(–)** to select "yes," and then press **OK**. The last Teletext page is displayed with the Reveal function activated. The Reveal function applies to this page only once.
Subpage	You can display the desired subpage by directly inputting a four-digit subpage number with **CH (▲)/(▼)**.
Character set	Press **OK** to display the "Character set" screen.
Sub-title pages	Press **OK** to display the "Sub-title pages" screen.

Teletext (Continued)

[5] Using Teletext menu (Continued)



To select the character set

1 With the “Character set” screen displayed, press **CH (▲)/(▼)** to select the desired character set, and then press **OK**.

2 Press **END** to exit.

To use the Sub-title pages screen

1 With the Sub-title pages screen displayed, press **CH (▲)/(▼)** and/or **Volume (+)/(–)** to select the desired programme.

2 Press **END** to exit.

Notes:

- To obtain the correct sub-title in other countries (page 150 default), it is necessary to input the transmitting-station-dependent numbers for these pages beforehand.
- Moving the programme position in the Programme table also moves the sub-title page.

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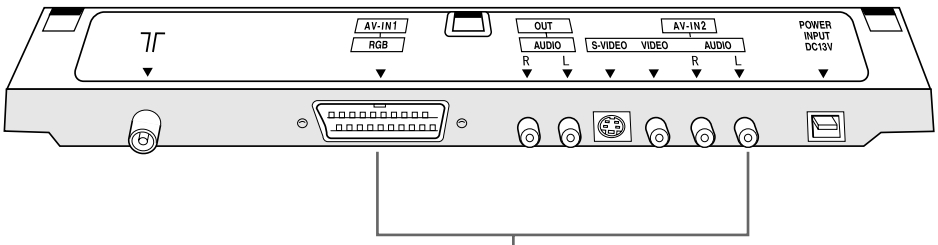
Connecting External Devices

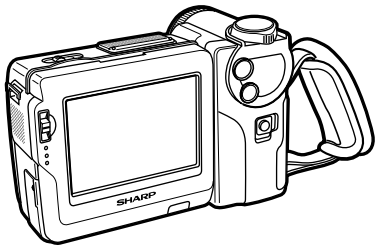
It is possible to enjoy video and sound by connecting a VCR and home video game system to the terminals located on the rear of the main unit.
When connecting an external device, turn off the power of the main unit and connecting device to prevent any possible damage.

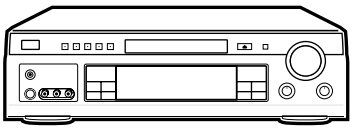


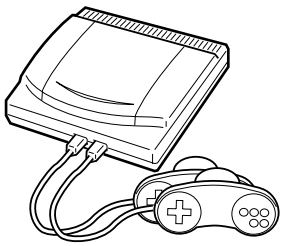
To AV-IN1 or 2 terminal

Examples of external devices that can be connected

- Video camera
- Home video game system
- VCR
- Laser disc player
- DVD







* PC connection is not possible.

Notes:

- Use a commercially available audio/video cord for the cable.
- Only connect audio/video signals to AV-IN1 and 2 terminals. Connecting other signals may result in a malfunction.
- The VIDEO input terminal and the S-VIDEO input terminal on the AV-IN2 side are shared connections with priority given to the S-VIDEO terminal. If both terminals are connected, the video signals from the S-VIDEO input terminal are selected for the AV-IN2 input.
  When viewing video from the VIDEO input terminal, do not connect anything to the S-VIDEO input terminal.
- For details concerning usage and connection of external devices, see the respective instruction manuals.

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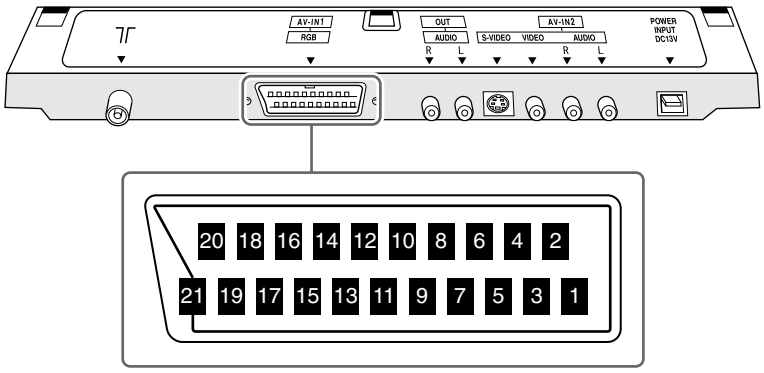
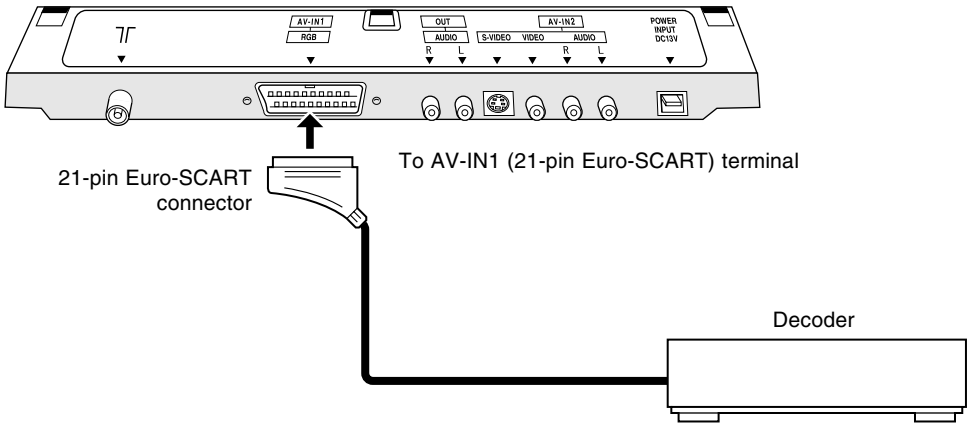
Connecting External Devices (Continued)

Connecting a Decorder through the 21-pin Euro-SCART (AV-IN1/RGB)



21-pin Euro-SCART (RGB)

1. Audio right output
2. Audio right input
3. Audio left output
4. Common earth for audio
5. Earth for blue
6. Audio left input
7. Blue input
8. Audio-video control
9. Earth for green
10. Not used
11. Green input
12. Not used
13. Earth for red
14. Not used
15. Red input
16. Red/Green/Blue control
17. Earth for video
18. Earth for Red/Green/Blue control
19. Video output
20. Video input (PAL/SECAM/NTSC)
21. Plug shield



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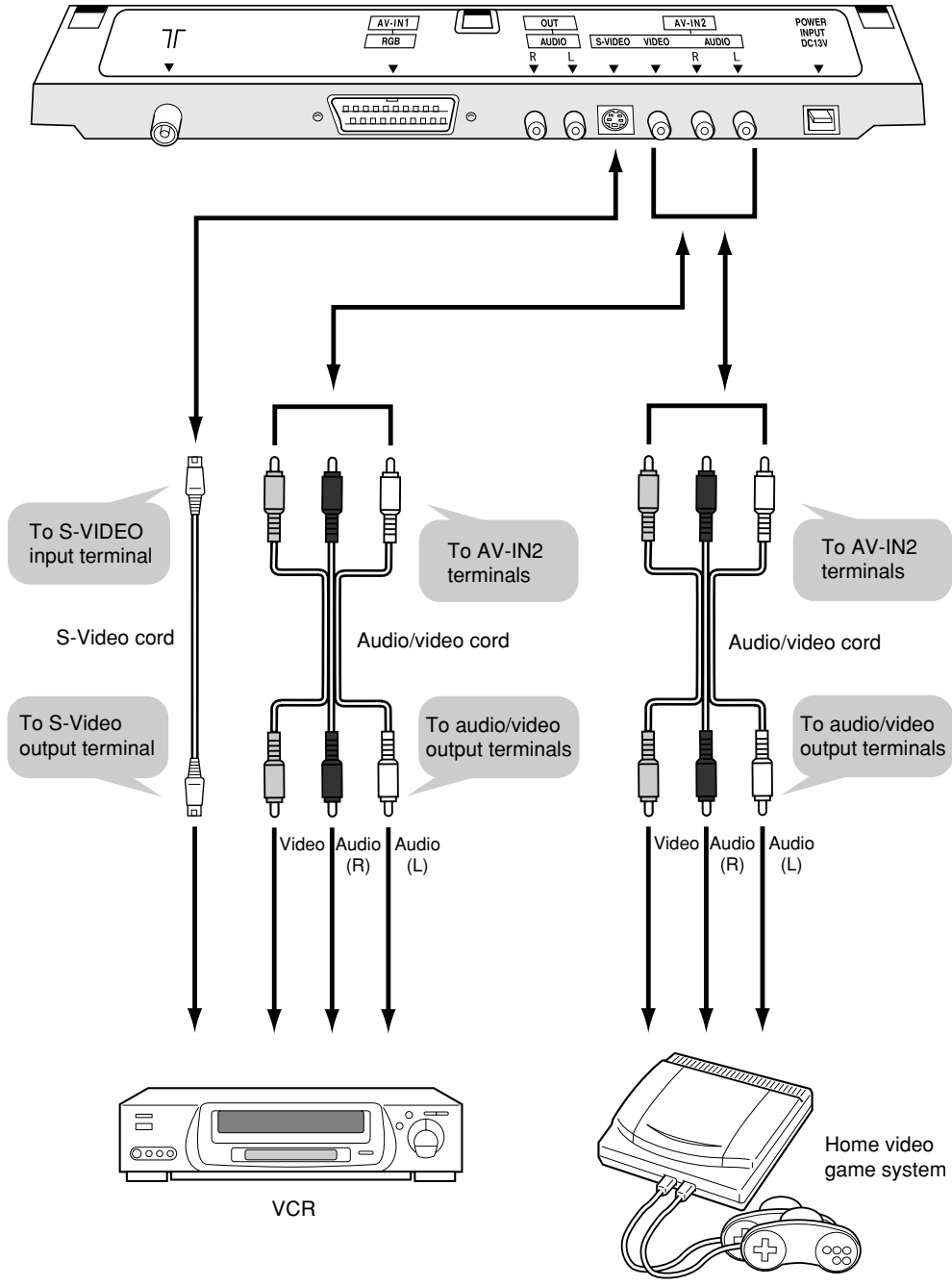
Connecting a VCR or a home video game system (AV-IN2)



Notes:

- When connecting to both the VIDEO input and S-VIDEO input terminals for AV-IN2, priority is given to the S-VIDEO input terminal.
- Do not connect antennas or headphones to AV-IN2.

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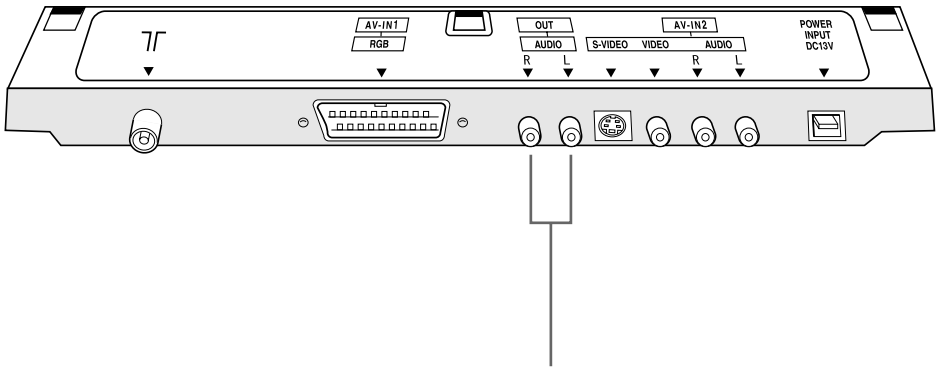
Connecting External Devices (Continued)

Outputting audio (AUDIO OUT)

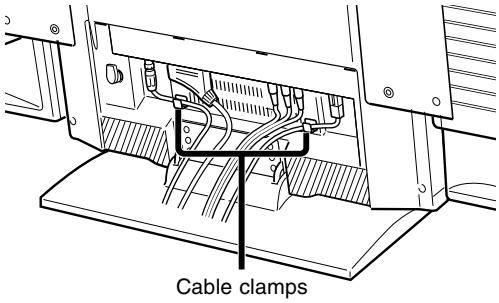
It is possible to output audio from the LCD TV set through the AUDIO OUT terminals.



Connect an audio amplifier, etc.

How to fix the cables

- Secure cables and cords with the supplied cable clamps so that they do not get caught when mounting the cover.
- Connect the cables and cords after affixing the cable clamps (2 positions) close to the antenna terminal and the POWER INPUT terminal.



Cable clamps

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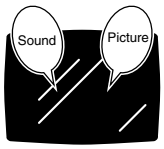
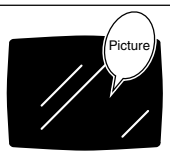
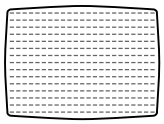
Troubleshooting

Before calling for repair services, make the following checks for possible remedies to the symptoms encountered.

LCD TV set

Problem	Check item	Reference page
 There is no picture or sound.	• Make sure the AC adapter is properly inserted in the power outlet. • Reception other than that of broadcasting stations can be considered. • Make sure the input mode is set to TV. • Make sure the main power switch of the main unit is on.	6 13 13
 There is no picture. There is no picture from AV-IN2.	• Make sure Picture adjustment is properly adjusted. • The fluorescent lamp may have reached the end of its service life. • Make sure the S-Video terminal has nothing connected.	16 – 49
There is no sound.	• Make sure the volume is not set to minimum. • Make sure the sound is not set to mute. • Make sure the headphones are not connected.	14 14 11
 There is no picture or sound, just noise.	• Make sure the antenna cable is properly connected. • Bad reception should be considered.	6 –
Picture is not clear.	• Make sure the antenna cable is properly connected. • Bad reception can be considered.	6 –
Picture is too light or improperly tinted.	• Check the colour adjustment. (NTSC mode)	16
The picture is too dark.	• Check if “Brightness” is set to “dark.” • Check “Contrast” and “Black level.” • The fluorescent lamp may have reached the end of its service life.	16 16 –
Remote control does not work.	• Check if batteries in the remote control have sufficient power. • Make sure the remote sensor window is not under strong lighting.	5 5

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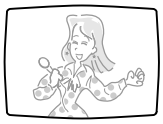
Troubleshooting (Continued)

LCD TV set

On-screen message	Check item	Reference page
No subtitles available!	• Referring to the “Sub-title pages” screen of the Teletext menu check if the channel for the sub-title is set for your country. • Check if a programme having sub-titles is received.	46 –

Antenna

Problem	Check item
 The picture is not sharp. The picture shakes.	• The reception may be weak. • The quality of the broadcast may also be bad. • Make sure the antenna is facing the correct direction. • Make sure the outside antenna has not been disconnected.
The picture has ghosts.	• Make sure the antenna is facing the correct direction. • Broadcast waves may be reflected from adjacent mountains or buildings.
The picture is spotted.	• There may be interference from automobiles, trains, high-voltage lines, neon lights, etc. • There may be interference between the antenna cable and power cable. Try positioning them further apart.
There are stripes on the screen or colours fade.	• Is the unit receiving interference from other devices? Transmission antennas of radio broadcasting stations and transmission antennas of amateur radios and cellular phones may also cause interference. • Use the unit as far apart as possible from devices that may cause possible interference.

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Specifications

Items		20" LCD COLOUR TV, Model: LC-20A2E
LCD panel		20" TFT LCD
Number of pixels		921,600 dots
Video colour system		PAL/SECAM/NTSC
TV Function	TV-Standard (CCIR)	BG/L/DK, I, M, N
	TV-Tuning System	Auto preset 200 ch.
	STEREO/BILINGUAL	NICAM, IGR
	AUTO PRESET	Yes
	CATV	~Hyper Band
Brightness		450 cd/m^2
Lamp life		40,000 hours
Viewing angles		H: 160° V: 160°
Audio amplifier		2.6 W × 2
Speakers		80 mm ø 2 pcs.
Terminals	AV-IN1	RGB, VIDEO, AUDIO
	AV-IN2	S-VIDEO, VIDEO, AUDIO
	OUT	AUDIO
	Antenna	DIN
	Headphones	3.5 mm ø jack (Front)
OSD language		English/German/French/Spanish/Italian/Swedish/Dutch
Power requirement		DC 13 V, AC 110 – 240 V, 50/60 Hz
Weight		10.5 kg, incl. stand, excl. accessories
Accessories		Remote Control, Batteries, AC adapter, AC cord, Speaker nets, Cable clamps

■ Design and specifications are subject to change without notice.

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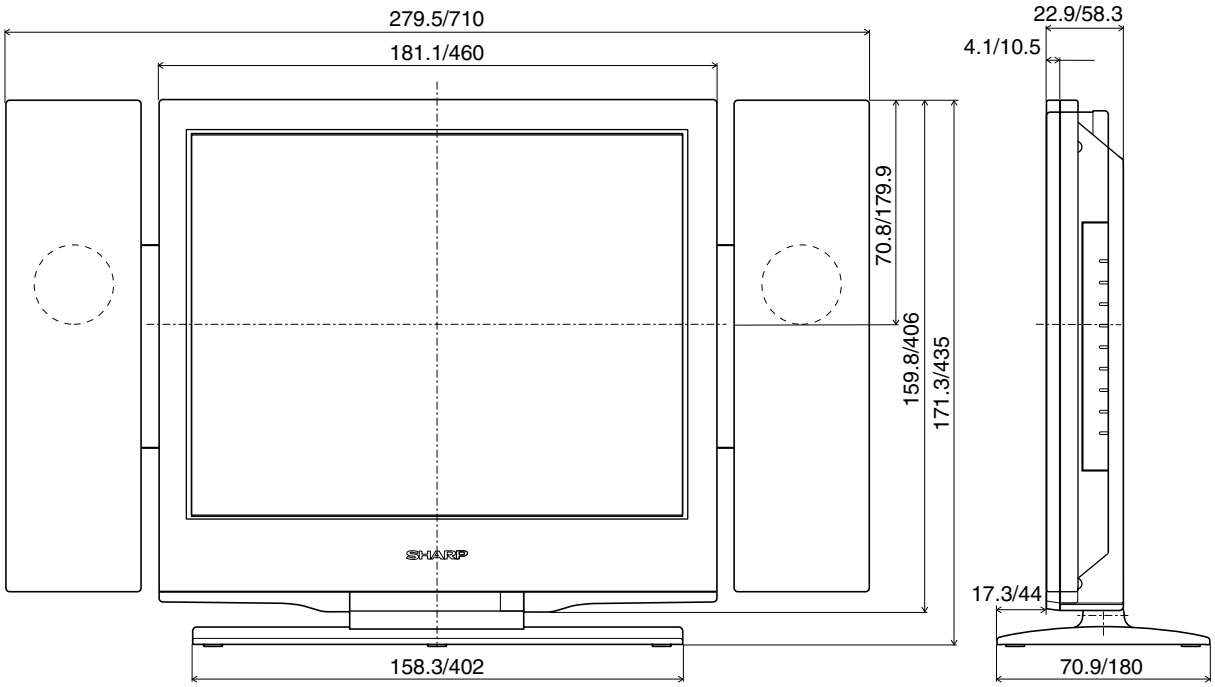
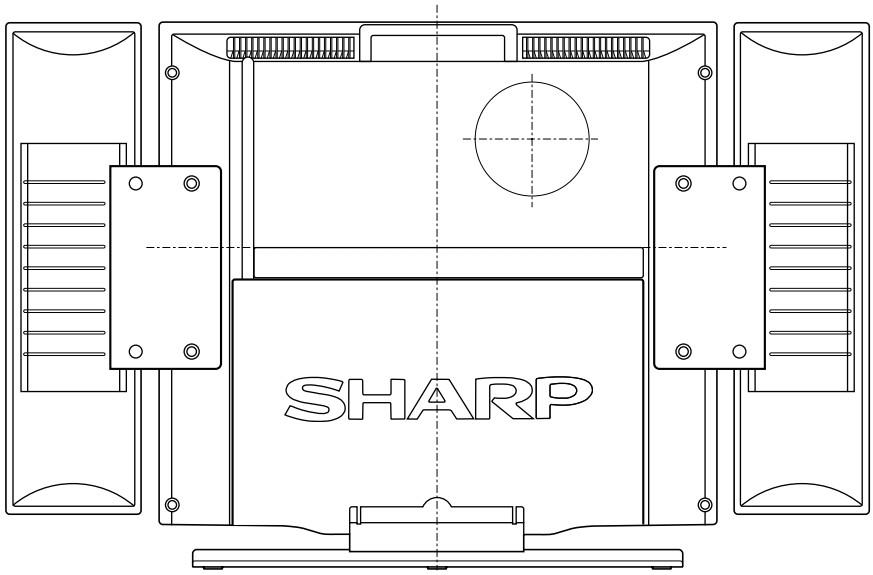
Dimensional Drawings

Unit: mm





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IMPORTANT NOTE ON DISENGAGING ADVANCED CHILD LOCK

If you have forgotten your personal code number and cannot disengage ADVANCED CHILD LOCK, follow the procedure below.

1. Press **MENU** to display the TV menu.
2. Press **CH (▲)/(▼)** to select “Child lock,” then press **OK**.
3. The PIN input menu appears.
4. Input “3001” with **Channel Select**.
The Child lock setting menu appears and the PIN is cleared.
A new PIN can now be input.

ADVANCED CHILD LOCK will now be disengaged.
We suggest that you remove this instruction from the manual to prevent children from reading it. Keep it in a safe space for future reference.

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